

**Volume**

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**R0332**

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Filed Sept. 6, 1905.

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C.

X-310.

## FIELD NOTES

OF THE SURVEY OF THE

SOUTH BOUNDARYO FTOWNSHIP THIRTY-SEVEN SOUTHRANGE NO. THREE WESTOf the SALT LAKE BASE AND Meridian,STATE OF UTAH,

AS SURVEYED BY

deceased,John H. Clark, Commissioner for William Lehman United States Deputy Surveyor,Under his Contract No. 325, dated January 23, 1899, 190Survey commenced August 25, 1904,Survey completed August 30, 1904.

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Sept. 5-78-33 ✓

## NAMES AND DUTIES OF ASSISTANTS.

J. Cecil Clark, Chainman & Moundman.  
S. Raymond Pratt, Chainman & Moundman,  
Samuel Clark, Axeman & Flagman.  
James G. Houston, Axeman.  
James L. Clark, Flagman.

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Township 37 South, Range 3 West S.L.B.M.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, J. Cecil Clark and Raymond Pratt

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

South Boundary of Tp. 37 S. R. No. 3 N. S. I. B. & M. W. A.

J. Cecil Clark

Chairman.

S. R. Pratt

Chairman.

Subscribed and sworn to before me this 20<sup>th</sup>

day of August, 1904

Commission expires Feb. 15<sup>th</sup> 1906



W. P. Sargent

Notary Public

WE, J. Cecil Clark and Raymond Pratt

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

South Boundary of Tp. 37 S. R. No. 3 N. S. I. B. & M. W. A.

J. Cecil Clark

Moundman.

S. R. Pratt

Moundman.

Subscribed and sworn to before me this 20<sup>th</sup>

day of August, 1904

Commission expires Feb. 15<sup>th</sup> 1906



W. P. Sargent

Notary Public

WE, Samuel Clark and James G. Jones, Jr.

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

South Boundary of Tp. 37 S. R. No. 3 N. S. I. B. & M. W. A.

Samuel Clark

Axman.

James G. Jones, Jr.

Axman.

Subscribed and sworn to before me this 20<sup>th</sup>

day of August, 1904

Commission expires Feb. 15<sup>th</sup> 1906



W. P. Sargent

Notary Public

WE, James L. Clark and Samuel Clark, do solemnly swear that we will well and truly perform the duties of flagmen according to instructions given us, to the best of our skill and ability, in the survey of South Boundary of Tp. 37 S. R. No. 3 N. S. I. B. & M. W. A.

James L. Clark

Flagman.

Samuel Clark

W. P. Sargent

Notary Public

Subscribed and sworn to before me this 20<sup>th</sup>

day of August, 1904

Commission expires Feb. 15<sup>th</sup> 1906



South Boundary of T. 37 S., R. 3 E.

Chains.

Survey commenced August 25, 1904, and executed with a F. and L.E. Surley engineer's transit, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah June 18, 1904.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observation on Polaris. I proceed as follows:

At the cor. of Ts. 37 and 38 S., Rs. 2 and 3 E., which is a sandstone 14x10x8 ins., set 10 ins. in the ground, and marked and witnessed as described by the surveyor general, in lat. $37^{\circ}33'N.$ ; long. $112^{\circ}07'W.$ , I set off  $16^{\circ}41'N.$  on the decl. arc;  $37^{\circ}33'N.$  on the lat. arc; and at 3h 02m p.m.l.m.t. determine with the solar a true meridian and mark a point thereof by a tack in a peg securely driven in the ground, 5 chs. N. of the cor.

At 9h 13m.p.m.l.m.t. I observe Polaris at eastern elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

August 25, 1904.

August 26: At 6 a.m.l.m.t. I lay off the azimuth of Polaris  $1^{\circ}31'$  to the west, and mark the true meridian thus determined by driving a tack in the peg with by solar observation Aug. 25, on which the true meridian falls 0.2 ins. east of the mark determined by the solar.

## South Boundary of T.37 S., R. 3 W.

Chains.	At 8h 02m.a.m.l.m.t. I set off $37^{\circ}33'N.$ on the lat.arc; $10^{\circ}27'N.$ on the decl.arc; and mark a point in the true meridian determined with the solar by a tack driven in the peg already set 5 chs.N. of my station. This mark falls 0.4 ins.E. of the meridian established by Polaris observation.
	The solar apparatus by p.m. and a.m. observations defines positions for true meridians, respectively about $11^{\circ}W.$ and $21^{\circ}E.$ of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of said true meridian at 8h 30m.a.m. is $N.15^{\circ}52'W.$ ; the angle thus determined, reduced by the table page 100, gives the mag.decl. $15^{\circ}47'E.$
	I begin at a point 2.56 ft.S. of the cor.of Tps.37 and 38 S., Rs. 3 and 3 W., heretofore described, and run $N.89^{\circ}58'W.$ on a secant bet.secs.1 and 36,
	Over nearly level ground, through dense brush; over uncultivated land belonging to S.Johnson.
19.42	N.side of the main street of Georgetown bears NW. and SE.
22.20	S.side of same street; board fence; through abandoned garden and orchard, now dead, belonging to R.C.Pinney
31.90	Yellow Creek Wash, generally dry in summer, drains S. $64^{\circ}E.$ at this point. Leave Pinney's orchard.
33.68	W.side of wash; ascend gradually.
40.00	North from secant 1.15 ft.
	Set a sandstone $14 \times 6 \times 6$ ins., 9 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{2}$ on N.face; from which
	A pinon pine 8 ins.diam.bears $N.70^{\circ}E.$ 36 lks.dist. marked $\frac{1}{4}$ S 36 B T
	No other trees available to mark; raise a mound of stone $3\frac{1}{2}$ ft.base 2 ft.high N.of the cor.Fits impracticable.
43.68	Small dry wash 4 ft.deep, 40 lks.wide, .drains N.then NE.
47.60	Road to Henderson's ranch and Willis Creek, bears N.and S., and ascend abruptly.
48.50	Top of ridge bears N. and S. (tributary). Descend.
50.00	Bottom of ridge.

South Boundary of T.37 S. R3 W.

52.00	Base of ridge and ascend.
54.75	Top of rocky ridge, bears N. and S., and descend abruptly
57.80	Bottom of gulch, course N. and ascend.
59.40	Top of ridge bears N. and S. and descend.
63.00	Bottom of hollow, course N.
65.00	Ascend abruptly, 30 ft.
68.90	Top of ridge bears N. and S.
76.00	Base of main hill, cliffs, bear N. and S., then NW. and SE.
76.50	Top of cliffs and descend.
80.00	Set a sandstone 18x6x5 ins. 12 ins. in the ground for cor. of secs. 1, 2, 35, and 36, marked with 1 notch on the E. and 5 notches on the W. edges (set on E. slope of ridge); from which
	A pinion 14 ins. in diam. bears S.89°E. 61 lks. dist., marked T 38 S R 3 W S 1 B T
	A pinion 7 ins. in diam. bears S.86°20'W. 49 lks. dist., marked T 38 S R 3 W S 2 B T
	A cedar 12 ins. in diam. bears N.29°06'W. 100 lks. dist., marked T 37 S R 3 W S 35 B T
	No other trees available to mark; raise a mound of stone $3\frac{1}{2}$ ft. base, 2 ft. high W. of cor. Pits impracticable. Land, rolling to mountainous.
	Soil, sandy loam in valleys; with cliffs and rocks and alkali on last half mile; 2nd and 4th rate. Timber scattering cedar and pinion pine, Brush, sage, rabbit, and thimble berry on 80.00 chs. Mountainous land or dense brush on 80.00 chs.
	N.89°59.1'W. on a secant bet. secs. 2 and 36. Ascend rather abruptly through dense brush.
1.00	Top of main ridge or hill, bears N. and S. at this point.
	Descend gently through heavy timber, bears N. and S.
5.50	Leave timber and enter sage flat.
38.04	E. edge of a dry wash, 15 ft. deep, 20 lks. wide, course S.15°E., at this point.

South Boundary of L. N. & L. L.

Chain.

- 37.67 Base of hill and enter heavy timber.  
40.00 S. of secant line 0.095 ft.  
Set a sandstone 18x24x4 inc. in the ground for 1  
sec. cor., marked  $\frac{1}{2}$  on E. face; from which  
A pinion pine 12 ins. in diam. bears N.24°41'W. 17.  
5 lvs. dist., marked  $\frac{1}{2}$  S 35 D T  
A cedar 6 ins. in diam. bears S.9°20'W. 33 lvs.  
dist., marked  $\frac{1}{2}$  S 2 D T
- 47.45 Top of slope of hill, bears SW. and SW. Descend gradually.  
50.00 Bottom of hollow, drains SW. and ascend gradually  
55.00 Top of ridge on main hill, bears SW. and SW., and descend  
into large gully, drains SW.  
64.00 W. side of gully, and ascend gently.  
76.00 Edge of hill, bears N. and S. at this point; and descend  
over S. slope of rocky point.  
80.00 S. slope of point of hill.  
S. from the secant line, 1.535 ft.  
Set a sandstone 20x16x4 inc., 16 ins. in the ground for  
cor. of sec. 2, 3, 34, and 35, marked with 2 notches on  
the E. and 4 notches on the W. edges; from which  
A pinion 10 ins. in diam. bears S15°15'W. 43 lvs.  
dist., marked T.39 S R 3 E 3 S 3 D T  
A pinion pine 8 ins. in diam. bears S.62°11'W. 65  
lvs. dist., marked T.39 S R 3 E 3 S 2 D T  
A cedar 6 ins. in diam. bears N.70°22'W. 41 lvs.  
dist., marked T.37 S R 3 E 3 S 2 D T
- No other trees available to mark; raise a mound of stone  
2 ft. base, 1 $\frac{1}{2}$  ft. high E. of the cor. It's impracticable.  
Land, level and hilly.  
Soil, sand and gravel loam; 1st. and 3rd rate.  
Timber, cedar and pinion pines- dense on 40.00 ahs.  
Brush, sage, rabbit, deer, scrub oak, and thimble berry,  
on 40.00 ahs.  
Abundant low or heavy timber and dense brush on 60.00  
ahs.

campsite

South Boundary of T.37 S., R 3 W.

Chains: Cloudy. Solar observation impossible. August 26, 1904.

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August 27: Cloudy; solar observation impossible.

N. $89^{\circ} 59' W.$  on a secant line bet. secs. 3 and 34

Along S.slope of hill, through cedar and pinon pine  
and dense underbrush.

4.50 Leave heavy cedar and pinon pine, bears NW. and S.

6.00 Foot of hill and enter Sheep Creek Flat, bears SE.

11.00 Road from Cannonville to shearing corrals and E. Fork  
bears NW. and SE.

40.00 S.from secant 1.92 ft.

Set a sandstone 18x10x3 ins., 12 ins.in the ground, for  
 $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N face; from which

A pinion pine 12 ins.in diam.bears N. $2^{\circ} E.$  72 lks.

dist., marked  $\frac{1}{4} S 34 B T$

A pinion pine 10 ins.in diam.bears S. $7^{\circ} E.$  98 lks.  
dist., marked  $\frac{1}{4} S 3 B T$

41.50 Edge of Sheep Creek wash 20 ft.deep, course SE., then E.  
Small stream of water from yesterday's flood. Dry most  
always. Enter dense scrub oak bears N. and S.

44.30 W.edge of wash.

48.00 Leave dense oak.

60.50 Edge of old swale or creek bed, course SE. Enter heavy  
cedar and pinon bears NW. and SE.

70.20 Edge of dry wash, 10 ft.deep, course zigzag to SE.

72.50 W.edge of wash.

80.00 S.from secant line 2.04 $\frac{1}{2}$  ft.

Set a sandstone 24x9x6 ins., 18 ins.in the ground for  
cor.of secs.3,4,33, and 34, marked with 3 notches on  
the E. and 3 notches on the W.edges; from which

A cedar 10 ins.in diam.bears N. $35^{\circ} E.$  80 lks.dist.  
marked T 37 S R 3 W S 34 B T

A cedar 18 ins.in diam.bears N. $15^{\circ} W.$  90 $\frac{1}{2}$  lks.dist.  
marked T 37 S R 3 W S 33 B T

## South Boundary of T. 37 S., R. 3 W.

Chains.	A cedar 8 ins.in diam.bears S.10°E. 57 $\frac{1}{2}$ lks. dist. marked T 38 S R 3 W S 3 B T  A cedar 10 ins.in diam.bears S.20°E. 105 $\frac{1}{2}$ lks.dist. marked T 38 S R 3 W S 4 B T  Land hilly to level.  Soil sandy and clay loam; 1st and 2nd rate. Timber dense cedar and pinon pine on 24.00 chs. Brush, sage, rabbit, scrub oak, deer, greasewood, and thimble berry.  Mountainous land or heavy timber and dense brush on 80.00 chs.
	West on a secant line betsecs.4 and 33, Through heavy timber and dense brush.
2.50	W.edge of swale and leave heavy timber.
15.00	Foot of hill and ascend.Enter heavy timber bears N. and S.
18.00	Top of point on S.slope of hill.
24.50	Bottom of hill.
36.50	Ascend over small ridges, bear NE. and SW.
40.00	Top of ridge bears NE. and SW. S.from secant line 1.92 ft. Set a sandstone 18x10x5 ins.,12 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which
	A pinion 7 ins.in diam.bears N.60°W. 44 lks.dist. marked $\frac{1}{4}$ S 33 B T
	A cedar 6 ins.in diam.bears S.65° W.34 lks.dist. marked $\frac{1}{4}$ S 4 B T
	Over level upland,through very heavy cedar and pinon pine.
72.25	Edge of gulch,175 ft.deep, drains N. Abrupt descent.
74.35	Bottom of gulch.
79.00	W.side of gulch and ascend gradually.
80.00	S.from secant line, 1.535 ft. Set a sandstone 20x7x6 ins., 15 ins.in the ground for for cor.of secs.4,5,32, and 33, marked with 4 notches on the E. and 2 notches on the W.edges; from which A pinion 4 ins.in diam.bears N.50° 10'E. 34 $\frac{1}{2}$ lks.

South Boundary of T. 37 S. R. 3 W.

Chains.

dist., marked T 37 S R 3 W S 33 B T

A pinion pine 5 ins. in diam. bears N. 69°W. 64 lks dist., marked T 37 S R 3 W S 32 B T

A pinion pine 5 ins. in diam. bears S. 70°E. 13 lks dist., marked T 38 S R 3 W S 4 B T

A pinion pine 10 ins. in diam. bears S. 5°02'W. 53 lks. dist., marked T 38 S R 3 W S 5 B T

Land, level to mountainous.

Soil, sandy loam and gravel; 2nd and 3rd rate.

Timber, cedar and pinion pine, heavy on 67.50 chs.

Brush, sage, rabbit, deer, scrub oak, and thimble berry on 80.00 chs.

Mountainous land or heavy timber and dense brush on 80.00 chs.

Cloudy. Rain. Solar observation impossible. Aug. 27, 1904

August 29: Cloudy; Solar observation impossible.

S. 89°59'W. on a secant line bet. secs. 5 and 32.

Ascend rather abruptly through heavy cedar and pinion timber and dense brush.

11.50 Top of ridge to S. of small peak, ridge bears N. and S. Descend abruptly.

20.00 Bottom of hollow, and ascend abruptly, drains SE.

27.00 Top of small ridge, bears N. and S., and descend

30.00 Bottom of hollow, drains N., and ascend.

37.00 Top of ridge or hill, bears N. and S., and descend gradually.

40.00 S. from secant line 0.895 ft.

Set a sandstone 32x7x3 ins. 24 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face; from whichA pinion pine 10 ins. in diam. bears N. 31°29'E. 20 lks. dist., marked  $\frac{1}{4}$  S 32 B TA pinion 9 ins. in diam. bears S. 70°W. 24 lks. dist., marked  $\frac{1}{4}$  S 5 B T

South Boundary of T. 37 S. R. 3 W.

Chains.	
41.35	W. edge of hill and descend abruptly.
43.40	Bottom of gulch, course N. and ascend abruptly.
45.00	Top of ridge, bears N. and S.
53.00	Descend into gulch.
57.00	Dry wash in bottom of gulch, 10 ft. deep, drains N. then NE.
62.00	Top of ridge, bears N. and S., and descend over small gullies.
76.85	Top of ridge, bears N. and S., and descend.
78.00	Ascend to top of hill.
80.00	Set a sandstone 17x6x6 ins., 12 ins. in the ground, on E. slope of hill, for cor. of secs. 5, 6, 31, and 32, marked with 5 notches on the E. and 1 notch on the W. edges; from which
	A pinion pine 5 ins. in diam. bears N. $15^{\circ}$ E. $46\frac{1}{2}$ lks. dist., marked T 37 S R 3 W S 32 B T
	A pinion pine 6 ins. in diam. bears N. $22^{\circ}$ W. 56 lks. dist., marked T 37 S R 3 W S 31 B T
	A pinion pine 8 ins. in diam. bears S. $24^{\circ}$ E. $38\frac{1}{2}$ lks. dist., marked T 38 S R 3 W S 5 B T
	A pinion pine 10 ins. in diam. bears S. $40^{\circ}$ W. 25 lks. dist., marked T 38 S R 3 W S 6 B T
	Land, rough and mountainous.
	Soil, gravel loam; 3rd and 4th rate.
	Timber, cedar and pinion pine, -heavy on 80.00 chs.
	Brush, sage, deer, scrub oak, and thimble berry on 80.00 chs.
	Mountainous land, heavy timber, and dense brush on 80.00 chs.
	S. $89^{\circ} 59' W.$ on a secant line bet. secs. 6 and 31.
1.50	Top of hill, bears N., then NE., and S. and descend.
5.00	Leave timber and cross small flat.
10.50	Enter heavy timber, bears N. and S.
23.60	Enter very heavy timber, and ascend slightly.
25.00	Top of small knoll.

## South Boundary of T.37 S., R.3 W.

Chains.	
30.25	Leave dense timber and cross small plateau through scattering timber.
40.00	N. from secant line 1.15 ft. Set a beauxite stone 20x6x5 ins., 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar 24 ins. in diam. bears N. $39^{\circ}20'W.$ 13 lks. dist., marked $\frac{1}{4}S\ 31\ BT$ A pinion pine 4 ins. in diam. bears S. $55^{\circ}26'W.$ 15 lks. dist., marked $\frac{1}{4}S\ 6\ BT$ Note.- At 3 p.m. terrific thunder storm prevents further work this day.

August 29, 1904.

	August 30: Cloudy; Solar observations impossible.
44.50	Edge of wash, 20 ft. deep, course NE.; and descend.
45.55	Bottom of wash; ascend.
68.85	Top of ridge, bears N. and S., and descend into gulch.
72.80	Bottom of gulch, drains N., and ascend abruptly.
75.60	W. side of gulch and ascend.
77.80	Top of small ridge, bears N. and S., and descend slightly.
78.00	Bottom of hollow, drains N., and ascend slightly.
78.33	Which is the proper convergency for meridian at this point. North from secant 2.56 ft.
	Set temp. cor. for Ts. 37 and 38 S., Rs. 3 and 4 W., which I afterward make permanent, for description of which see notes of the Emery Valley Guide Meridian, or W. bdy. of this T. book "D".
	Land Mountainous.
	Soil, sandy clay on flats, gravel loam on hills; 2d and 3d rate.
	Timber, heavy cedar and pinion pine on 24.75 chs.
	Brush, deer, sage, scrub oak, service berry, on 78.33 chs
	Mountainous land, heavily timbered or covered with dense undergrowth on 78.33 chs.

August 30, 1904.

South Boundary of T. 37 S. R. 3 W.

For general description see notes of subdivision of this township.

*John H. Clark*

... Compassman for

William Lewman, D.S., Deceased.

**Volume**

**#**

**R0332**

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by John T. Clark, Deputy Surveyor  
for William Lewman (deceased), United States Deputy Surveyor, to assist in running, measuring, and  
marking the lines and corners described in the foregoing field notes of the survey of the South,

Boundary of Twp 37 S. R. 3 W. U. S. D. S. Oct 1871

showing the respective capacities in which they acted:

Oscar Clark, ..... Chainman.  
Raymond Pratt, ..... Chainman.  
Cecil Clark, ..... Moundman.  
Raymond Pratt, ..... Moundman.  
James C. Clark, ..... Axeman.  
James G. Houston, ..... Axeman.  
James L. Clark, ..... Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John T. Clark, Deputy Surveyor for  
William Lewman, deceased, United States Deputy Surveyor, in surveying all  
those parts or portions of the South Boundary of Township  
37 South Range 3 W.

of the Half  
Lake Basist meridian, State of Utah, which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for Utah.

Oscar Clark, ..... Chainman.  
Raymond Pratt, ..... Chainman.  
Oscar Clark, ..... Moundman.  
Raymond Pratt, ..... Moundman.  
Oscar Clark, ..... Axeman.  
James G. Houston, ..... Axeman.  
James L. Clark, ..... Flagman.  
Samuel Clark, ..... Flagman.

Subscribed and sworn to before me this 28

day of August, 1905 }  
 Notary Public  
 Milwaukee, Wis. }  
 Feb 15/1906  
 6-151

W. P. Sargent: Notary Public  
 Madison County, Wis.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

John H. Clark, Comptroller for William L. Curran (deceased), United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob C. Blairstead, United States Surveyor General for Dela., bearing date of the 23<sup>d</sup> day of January 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Dela., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the south boundary of Township 39 south Range 3 West, of the Salt Lake City District, of the State of Dela.

Base and meridian, in the State of Dela., which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Dela., and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.



Subscribed by said John H. Clark, and sworn to before me  
this 29 day of August, 1905

Leo B. Hancock,  
Clerk of Court

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Dela., October 21, 1906

The foregoing field notes of the survey of the south boundary of Township 39 south Range 3 West of the Salt Lake City District, of the State of Dela.,

executed by John H. Clark, Comptroller for William L. Curran, deceased, under his contract No. 225, dated January 29, 1899, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull,  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

SEP 6 1905

BOOK A-332

D.

## FIELD NOTES

X.S.B.

OF THE SURVEY OF THE

EMERY VALLEY GUIDE MERIDIANO RW E S T B O U N D A R YO FTOWNSHIP THIRTY-SEVEN SOUTHRANGE 3 WESTOf the SALT LAKE BASE AND Meridian,

STATE OF UTAH,

AS SURVEYED BY

Deceased.

John H. Clark, Compassian for William Newman, United States Deputy Surveyor,

Under his Contract No. 225, dated January 23, 1899, 190

Survey commenced Aug. 30th, 1904.

Survey completed September 4th, 1904.

6-161

Aug 6-00-01

## NAMES AND DUTIES OF ASSISTANTS.

J. Cecil Clark ..... Chainman & Moundman.

S. Raymond Pratt ..... Chainman & Moundman.

Samuel Clark ..... Axeman, Flagman &, Chainman.

James G. Houston ..... Axeman, Chainman.

James L. Clark, ..... Flagman.

6-151

Volume

#

R0332

PRELIMINARY OATHS OF ASSISTANTS.

WE,

*J. Cecil Clark*

and

*Raymond Pratt*

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

*The Emery Valley Land Meridian or West Boundary Tp 37 S R 3 W S 1*

*J. Cecil Clark*

, Chainman.

*S R Pratt*

, Chainman.

Subscribed and sworn to before me this 20

day of

*August*

, 1904

*Commission before Feb 15 1906*



WE,

*J. Cecil Clark*

and

*Raymond Pratt*

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

*The Emery Valley Land Meridian or West Boundary Tp 37 S R 3 W S 1*

*J. Cecil Clark*

, Moundman.

*S R Pratt*

, Moundman.

Subscribed and sworn to before me this 20

day of

*August*

, 1904

*Commission before Feb 15 1906*



WE,

*Samuel Clark*

and

*James G. Houston*

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

*The Emery Valley Land Meridian or West Boundary Tp 37 S R 3 W S 1*

*Samuel Clark*

, Axman.

*James G. Houston*

, Axman.

Subscribed and sworn to before me this 20

day of

*August*

, 1904

*Commission before Feb 15 1906*



*W R Sargent*

*Notary Public*

WE, *Samuel Clark* and *James Clark*, do solemnly swear that we will well and truly perform the duties of flagman according to instructions given us, to the best of our skill and ability, in the survey of

*The Emery Valley Land Meridian or West Boundary Tp 37 S R 3 W S 1*

*Samuel Clark*

, Flagman.

*James L. Clark*

, Flagman.

Subscribed and sworn to before me this 20

day of

*August*

, 1904

*Commission before Feb 15 1906*



*W R Sargent*

*Notary Public*

FILED

SEP 18 1905

We, Samuel Clark and James G. Houston, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability and in accordance with instructions given us in the survey of the Emery Valley Guide Meridian or West Boundary of Tp. 37 S. R. 3 W. S.L.B & M. Utah.

*Samuel Clark* Chainman.  
*James G. Houston* Chainman.

Subscribed and sworn to before me  
this 20<sup>th</sup> day of Aug't. A.D. 1905.

*My Commission Expires Sept 15 1906* *John D. Sargent*  
Notary Public. *Garfield County Utah*

## Emery Valley Guide Meridian or West Boundary of T.37 S. R.3

Chains.	<p>Survey commenced Aug. 30, 1904, and executed with the instrument described in book "A" of this survey. I know the instrument to be in adjustment from recent tests made at the cor. of Ts. 37 and 38 S. Rs. 2 and 3 W. and recorded in book "C" of this survey.</p> <p>Aug. 30: At 5h 0m p.m., l.m.t., I set off <math>37^{\circ}33'N.</math> on the lat. arc; <math>8^{\circ}55'N.</math> on the decl. arc, and determine a true meridian with the solar at the temp. cor. to Ts. 37 and 38 S. Rs. 3 and 4 W., set by me in the survey of the S. bdy. of this T.</p> <p>Thence I run North on a random line, along W. bdy of the T., and at 480.01 chs. intersect thir N. bdy. of the T. at a point 1.90 chs. E. of the witness corner to corner of T. 36 and 37 S. Rs. 3 and 4 W., as established by Deputy Lewis under his contract No. 211.</p> <p>Permanent corner, cannot be set at this point as it falls on edge of cliff.</p> <p style="text-align: right;">Sept. 3, 1904.</p> <p>Sept. 4: At 8h 0m a.m., l.m.t., I set off <math>37^{\circ}38'N.</math> on the lat. arc; <math>7^{\circ}13'N.</math> on the decl. arc, and determine a true meridian with the solar, and from the point for true cor. of Ts. 36 and 37 S. Rs. 3 and 4 W., I run South on a true line bet. secs. 1 and 6.</p> <p>Descend abruptly over cliffs into the head of Tropic Canyon, 800 ft. deep, drains E.</p> <p>Over precipitous ridges, of cliffs and peaks, bearing SE and shelving slope to the E.</p> <p>Difference bet. measurements of 40.01 chs., by two sets of chainmen, is 5 lks.; position of middle point</p> <p style="padding-left: 40px;">By 1st set, <math>39.98\frac{1}{2}</math> chs.</p> <p style="padding-left: 40px;">By 2nd set, <math>40.03\frac{1}{2}</math> chs.; the mean of which is</p> <p>Point for <math>\frac{1}{2}</math> sec. cor. falls on ledges, and no cor. can be set.</p>
40.01	

Emery Valley Guide Meridian or West Boundary of T. 37 S. R. 3 W.

Chains.	Descend abruptly into main part of canyon, 800 ft. deep; over red sandstone cliffs, bear E. and W., and shelving slopes to the E. No W.C. to $\frac{1}{4}$ sec. cor. can be set within the limits either N. or S. of true $\frac{1}{4}$ sec. cor. point on account of cliffs and steep rocky slopes
75.00	Bottom of main part of canyon, 850 ft. deep, drains E. Ascend very abruptly ledges, abutting N., and Steep slope. Difference bet. measurements of 80.01 chs. by two sets of chainmen, is 6 lks.; position of middle point By 1st set, 79.98 chs.
80.01	By 2nd set, 80.04 chs.; the mean of which is Point falls on ledges and the cor. of secs. 1, 6, 7, and 12 cannot be set. Land rough and mountainous. Soil rocky and sandy; worthless. No timber or underbrush. Mountainous land on 80.01 chs.
7.79	South on a true line bet. secs. 7 and 12. Ascend abruptly over cliffs 850 ft. high, and over mountainous land; through timber. Difference bet. measurements of 7.79 chs. by two sets of chainmen, is 4 lks.; position of middle point By 1st set, 7.81 chs. By 2nd set, 7.77 chs.; the mean of which is Top of cliff bearing NW. and SE. with cliff ridges abutting N. Set a white limestone 19x7x5 ins., 14 ins. in the ground for witness cor. to cor. of secs. 1, 6, 7, and 12, marked W.C. on NE. face; with 5 notches on the S. and 1 notch on N. edges; from which; A yellow pine 16 ins. in diam. bears S. $15^{\circ}55'W.$ 49 lks. dist., marked W.C. T 37S R 4 W.S. 12B T

Every Valley Guide Meridian or West Boundary of T. 37 S., R. 2 E.	
Chains.	
1	A yellow pine 26 ins. in diam. bears S.12°10'E. 37 lks. dist., marked W C T 37 S R 5 W S 7 B T On account of close proximity to cliffs no other trees are available to mark; raise a mound of stone 2 ft. base 1½ ft. high W. of the cor. Its impracticable.
18.00	Top of main ridge or hill, bears E. and W.; and descend
21.00	Bottom of hollow, drains W. then SW.; and ascend abruptly
22.00	Top of small ridge, bears E. and W.; and descend.
26.00	Top of secondary ridge, bears NW. and SE.
30.40	Descend more gradually.
	Difference bet. measurements of 40.00 chs., by two sets of chainmen, is 6 lks.; position of middle point
	By 1st set, 40.03 chs.
	By 2nd set, 39.97 chs.; the mean of which is
40.00	Set a sandstone 18x6x6 ins., 12 ins. in the ground for 1 sec. cor., marked ½ on W. face; from which
	A yellow pine 30 ins. in diam. bears N.3°20'E. 17 lks. dist., marked ½ S 7 B T
	A yellow pine 30 ins. in diam. bears S.35°W. 38 lks. dist., marked ½ S 12 B T
40.79	Leave timber and descend gradually into grassy flat.
47.00	Enter Whiteman's Bench flat, bears E. and W.
51.00	Enter heavy yellow pine, and ascend very gradually.
65.23	Descend into small dry wash or gully, 10 ft. deep, drains W.
66.79	Bottom of wash and ascend abruptly.
	Difference bet. measurements of 68.08 chs. by two sets of chainmen, is 8 lks.; position of middle point
	By 1st set, 68.12 chs.
	By 2nd set, 68.04 chs.; the mean of which is
68.08	As the point for cor. of secs. 7,12,13, and 18 falls on the ledges, points abutting S, and cannot be set at the true cor. point I.
	Set a limestone 20x5x6 ins., 15 ins. in the ground for W.C. to cor. of secs. 7,12,13, and 18, marked W C on NE.

## Emery Valley Guide Meridian or West Boundary of T. 37 S. R. 3 W.

Chains.

face, with 2 notches on the N. and 4 notches on the S. edges; from which

A fir 10 ins. in diam. bears N.  $84^{\circ}12' E.$  64 lks.

dist., marked W C T 37 S R 3 W S 7 B T

A fir 11 ins. in diam. bears N.  $73^{\circ}2' W.$  45 lks.

dist., marked W C T 37 S R 4 W S 12 B T

No other trees available to mark; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Pits impracticable.

Over ledges abutting S. from cliffs bearing SE. and W. into Yellow Creek Canyon.

80.00 Point for cor. of secs. 7, 12, 13, and 18; cor. not set on account of ledges.

Land rough and mountainous.

Soil, sandy loam and rocky; 1st and 4th mate.

Timber, pinion and yellow pine and fir, on 69.79 chs.

Mountainous land or land covered with dense timber on 80.00 chs..

South on a timber line bet. secs. 13 and 18, no.

Descend abruptly over cliffs and ledges 800 ft. high, bear SE. and W. A landslide extending from top to bottom of cliffs, bears E. 5.00 chs. dist.

20.00 Foot of ledges and descend abruptly through heavy yellow pine, dense brush and willows.

28.00 Yellow Creek wash, small stream of pure water, 5 lks. wide 2 ins. deep, drains SE. Difference bet. measurements of 40.00 chs. by two sets of chainmen, is 8 lks.; position of middle point.

By 1st set, 40.04 chs.

By 2nd set, 39.96 chs.; the mean of which is

40.00 Set a granite stone 18x6x4 ins., 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; from which

A yellow pine 26 ins. in diam. bears N.  $10^{\circ}W.$  65 lks.

dist., marked S 13 B T

No other trees available to mark; raise a mound of stone

Emery Valley Guide Meridian or West Boundary of T.37 S. R.3 W.

Chains.	2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Fits impracticable account of floods.
	Sept. 4: At this point I set off $7^{\circ} 9' N.$ on the decl. arc, and at 11h 59m a.m., l.m.t., observe the sun on the meridian; the resulting lat. gives $37^{\circ} 36' N.$
	Enter dense bull-berry brush.
41.00	Ascend and leave bull-berry brush.
45.80	Top of small knoll, 50 ft. high, and descend.
50.00	Foot of knoll and ascend abruptly up W. slope of ridge 350 ft. high, bearing NE. and SW.
70.00	Top of E. point of ridge and ascend abruptly along E. slope.
71.75	Top of hill, 500 ft. above Yellow Creek, bears E. and W. and leave Yellow Creek Canyon. Descend gently through yellow pine.
	Difference bet. measurements of 80.00 chs. by two sets chainmen, is 10 lks.; position of middle point
	By 1st set, 80.05 chs.
	BY 2nd set, 79.95 chs.; the mean of which is
80.00	Set a granitestone 18x9x4 ins., 12 ins. in the ground for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on the E. and 3 notches on the S. edges; from which
	A cedar 12 ins. in diam. bears S. $46^{\frac{1}{2}} E.$ 38 lks. dist., marked T 37 S R 3 W S 19 B T
	A yellow pine 30 ins. in diam. bears N. $87^{\circ} E.$ 165 lks, dist., marked T 37 S R 3 W S 18 B T
	A yellow pine 24 ins. in diam. bears S. $28^{\circ} W.$ 57 lks. dist., marked T 37 S R 4 W S 24 B T
	A yellow pine 25 ins. in diam. bears N. $55^{\circ} W.$ 45 lks. dist., marked T 37 S R 4 W S 13 B T
	Land mountainous.
	Soil, gravel, with limestone and sandstone cliffs; 4th rate and worthless.
	Timber, pinion and yellow pine on 60.00 chs.
	Brush, willows, scrub oak, deer, elder-berry, thimble-berry, and bull-berry.

## Emery Valley Guide Meridian or West Boundary of T. 37 S. R. 3 W.

Chains.	Mountainous land or land covered with heavy timber or dense undergrowth on 80.00 chs.
	South on a true line bet. secs. 19 and 24. Over level and mountainous ground, through yellow pine and scattering brush.
8.00	Descend into hollow 40 ft. deep, drains W.
15.00	Leave yellow pine and enter heavy pinion pine and cedar with dense brush.
20.00	Bottom of hollow, drains W., and ascend.
25.80	Top of ridge, bears E. and W. from main hill; and descend abruptly into wash or gully, 15 ft. deep, drains W.
26.70	S. side of wash and ascend.
28.00	Top of main ridge, bears E. and W., on W. side of peak, 1000 ft. above Yellow Creek; and descend over large boulders along W. side of peak.
39.00	Leave boulders and descend more gradually. Difference bet. measurements of 40.00 chs. by two sets of chainmen, is 7 lks.; position of middle point By 1st set, 40.03 $\frac{1}{2}$ chs.
	By 2nd set, 39.96 $\frac{1}{2}$ chs.; the mean of which is
40.00	Set a sandstone 24x8x5 ins., 18 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 12 ins. in diam. bears S.83°E. 6 $\frac{1}{2}$ lks. dist., marked $\frac{1}{4}$ S 19 B T No other trees available to mark; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
41.50	Descend abruptly over cliffs 60 ft. high, bear SE. and NW.
42.00	Base of cliffs, and descend.
45.82	Descend over ledge, 30 ft. high, bears SE. and NW.
47.60	Base of ledges, and descend.
50.60	Bottom of small gulch, drains SW., and ascend.
52.00	Top of small ridge, bears NE. and SW.
53.68	Descend abruptly over ledge 8 ft. high, bears SE. and NW.

## Emery Valley Guide meridian or West Boundary of T.37 S. R.3 W.

Chains.	
60.00	Descend along W. side of wash, drains S. then SE.
60.00	Descend more gradual, and leave slope of peak.
60.77	Bottom of small wash, 8 ft. deep, drains SW.
63.00	Descend into large dry wash, 15 ft. deep, drains E. Ascend S. side of wash, and ascend.
64.54	Descend into dry wash, 6 ft. deep, drains E.
69.55	S. side of wash and ascend.
70.50	Top of ridge of hill on E. side of peak, 900 ft. high.
79.00	Difference bet. measurements of 80.00 chs. by two sets of chainmen, is 8 lks.; position of middle point is, By 1st. set, 80.04 chs.
80.00	By 2nd set, 79.96 chs.; the mean of which is Set a sandstone corner inc., 15 ins. in the ground for cor. of secs. 19, 24, 25, and 30, marked with 4 notches on the N. and 2 notches on the S. edges from which A piñon pine 12 ins. in diam. bears S. 12° 10' E. 43 lks. dist., marked T 37 S R 3 W S 30 E T A cedar 16 ins. in diam. bears N. 30° 4' E. 51 lks. dist., marked T 37 S R 3 W S 19 E T No other trees available to mark; raise a mound of stone 2 ft. base, 1 ft. high W. of cor. Pits impracticable land rough and mountainous. Soil, sandy and gravelly with sandstone ledges; 4th rate and worthless. Timber, yellow and piñon pine and cedar. brush, sage, deer, scrub oak, thimble-berry, and service- berry. Mountainous land or land heavily timbered or covered with dense brush on 80.00 chs.

South, on a true line bet. secs. 25 and 30.  
 Descend gradually over sloping hill top through heavy  
 cedar and piñon pine and dense brush.  
 Difference bet. measurements of 40.00 chs., by two sets

(1)

Emory Valley Guide Meridian or West Boundary of T. 37 S. R. 3 W.

Chains.

- of chainmen, is 3 lks.; position of middle point.  
 By 1st set; 40.01½ chs.  
 By 2nd set, 39.98½ chs.; the mean of which is  
 40.00 Set a sandstone 22x10x4 ins., 16 ins. in the ground for  
 sec. cor., marked  $\frac{1}{4}$  on W. face; from which  
 A pinion pine 7 ins. in diam. bears S.49°W. 48 lks.  
 dist., marked  $\frac{1}{4}$  S 25 E T  
 A cedar 12 ins. in diam. bears N.46½°E. 9 lks.  
 dist., marked  $\frac{1}{4}$  S 30 B T.  
 43.35 Descend abruptly into hollow, 60 ft. deep.  
 49.50 Bottom of hollow, drains E. then SE.  
 Ascend abruptly.  
 52.20 Top of ridge, bears E. and W.  
 65.80 Descend abruptly into hollow 50 ft. deep, drains E. 5.00  
 chs. to form main hollow, drains SE.  
 70.68 Bottom of hollow and ascend abruptly.  
 74.00 Top of ridge, bears E. and NW.  
 76.10 Descend abruptly into hollow, 30 ft. deep, drains SE.  
 78.00 Bottom of hollow and ascend along E. side of ridge, bearing  
 NW. and SE, then S.  
 79.00 Top of point of ridge; along E. side of main ridge.  
 Difference bet. measurements of 80.00 chs., by two sets  
 of chainmen, is 6 lks.; the position of middle point  
 By 1st set, 80.03 chs.  
 By 2nd set, 79.97 chs.; the mean of which is  
 80.00 Set a sandstone 22x7x7 ins., 16 ins. in the ground for  
 cor. of secs. 25, 30, 31, and 36, marked with 5 notches on  
 the N. and 1 notch on the S. edges; from which  
 A cedar 12 ins. in diam. bears N.40°E. 94 lks.  
 dist., marked T 37 S R 3 W S 30 B T  
 A pinion pine 12 ins. in diam. bears S.40°20'E. 94  
 lks. dist., marked T 37 S R 3 W S 31 B T  
 No other trees available to mark; raise a mound of stone  
 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.  
 Land rough and mountainous to nearly le vel.

Lower Valley Spida Meridian on West Boundary of Tlwy. on N. side of Chain.

Soil, sandy and rocky; 4th rate.

Timber, heavy cedar and pinion pine.

Brush, sage, deer, thimble-berry, and scrub oak.

Mountainous land on 76.65 chs. Land covered with heavy timber on 80.00 chs.

---

South on a true line bet. secs. 31 and 36,

Ascend abruptly. Over mountainous land, through heavy timber and scattering brush.

2.00 Ascend more gradually.

2.50 Top of ridge or hill, bears N. and S. at this point.

Descend gradual.

23.00 Bottom of hill, and leave heavy timber, and enter heavy brush.

23.63 Road, bears E. and W.

24.45 Descend into Sheep Creek wash, 5 ft. deep, drains E. Flood now in progress from cloudburst in hills W.; usually dry, save for small seep springs at points along its course.

25.54 S. side of wash.

26.35 Base of hill and ascend abruptly, enter heavy timber, bears E. and W.; and leave heavy brush.

26.43 Top of hill 85 ft. high, bears E. and W. Descend.

Difference bet. measurements of 40.00 chs. by two sets of chainmen, is 7 lks.; position of middle point  
By 1st set, 40.03 chs.

By 2nd set, 39.96 chs.; the mean of which is

40.00 Set a sandstone 18x8x7 ins., 12 ins. in the ground for sec. cor., marked  $\frac{1}{2}$  on W. face; from which A cedar 12 ins. in diam. bears N. 15° E. 55 lks.

dist., marked  $\frac{1}{2}$  S 31 E T

No other trees available to mark; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high E. of cor. Bits impracticable. Descend abruptly.

47.50 Foot of hill and leave timber, bears E. and W. Over level

Lower Valley Guide Meridian or West Boundary of T. 37 S. R. 3 E.

Chain.

Ground.

54.70 Dry wash, 15 feet deep, drains E. then NE. Small flood in progress.

58.75 Leave wash and ascend gradually.

61.40 Base of hill, bears E. and W., and ascend abruptly, entering heavy timber.

Difference bet. measurements of 60.00 chs. by two sets of chainmen, is 8 lks.; position of middle point

By 1st set, 60.04 chs.

By 2nd set, 79.96 chs., the mean of which is

80.00 Intersect temp. cor. previously set, which I now make permanent.

Set a sandstone 24x6x6 ins., 18 ins. in the ground for cor. to Ts.37 and 38 S. Rs.3 and 4 W., marked with 6 notches on each edge; from which

A pinion pine 9 ins. in diam. bears N.46°10'E. 35 lks. dist., marked T 37 S R 3 W S 31 B T .

A pinion pine 11 ins. in diam. bears N.18°9'W. 30 lks. dist., marked T 37 S R 4 W S 36 B T .

A pinion pine 13 ins. in diam. bears S.41°25'W. 42 lks. dist., marked T 38 S R 4 W S 1 B T .

A pinion pine 12 ins. in diam. bears S.54°12'E. 35 lks. dist., marked T 38 S R 3 W S 6 B T .

Land rough and mountainous. 54.75 chs.

Soil, gravelly and sandy clay; 2d and 4th rates.

Timber, dense cedar and pinion pine 54.75 chs.

Brush, sage, deer, rabbit, thimble-berry, greasewood, and scrub oak.

Mountainous land or land covered with heavy timber or dense undergrowth on 60.00 chs.

Cloudy; rain. Solar observations impossible.

Sept. 4, 1904.

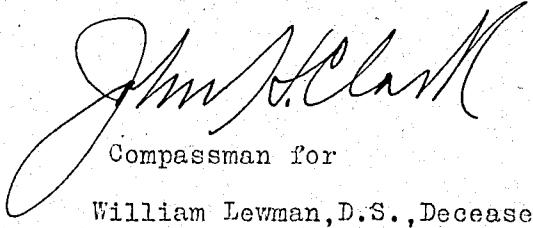
## Boundaries of T. 37 S. R. 3 W.

Latitudes, departures, and closing errors.

Line designated.	True Bearing.	Distance.	Latitudes.		Departure	
			N. Chs.	S. Chs.	E. Chs.	W. Chs.
S. bdy. T. 37 S. R. 3 W.-----	West.---	478.33	-----	-----	-----	478.
Emery Valley G. Meridian-----	North.---	480.01	480.01	-----	-----	-----
N. bdy. T. 37 S. R. 3 W.-----	East.---	477.78	-----	-----	477.78	-----
E. bdy. T. 37 S. R. 3 W.-----	South.---	480.00	-----	480.00	-----	-----
Convergency.-----					0.55	-----
Totals-----			480.01 ✓	480.00 ✓	478.33	478.
			480.00 ✓	-----	-----	478.
Error in lat.-----			0.01 ✓	Error in dep.-----	0.	

For general description see subdivision notes of this township.

September 4, 1904.

  
 John H. Clark  
 Compassman for  
 William Lewman, D.S., Deceased.

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**PAGE**

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by John Clark, Carpenter  
William Lewman, Land, United States Deputy Surveyor, to assist in running, measuring, and  
marking the lines and corners described in the foregoing field notes of the survey of the Emery  
Valley Guide Meridian or West Boundary of Twp 37 S R 3 W. S. S. B.  
showing the respective capacities in which they acted:

J. Cecil Clark, Samuel Clark, Chainmen.  
D. Raymond Pratt, James G. Houston, Chainmen.  
J. Cecil Clark, Moundman.  
D. Raymond Pratt, Moundman.  
Samuel Clark, Axman.  
James G. Houston, Axman.  
Samuel Clark, James L. Clark, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John Clark, Carpenter for  
William Lewman, Deceased, United States Deputy Surveyor, in surveying all  
those parts or portions of the Emery Valley Guide Meridian  
or West Boundary of Township 37 South  
Ranger 3 N.

Sake Bayard meridian, State of Utah, of the Salt  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for Utah.

J. Cecil Clark, James G. Houston, Chainmen.  
D. Raymond Pratt, Samuel Clark, Chainmen.  
J. Cecil Clark, Moundman.  
D. Raymond Pratt, Moundman.  
Samuel Clark, Axman.  
James G. Houston, Axman.  
James L. Clark, Flagman.  
Samuel Clark, Flagman.

Subscribed and sworn to before me this 28<sup>th</sup>

day

of January, 1905



My Commission Expires Feb 15, 1916.

Argus, Hwy. Public  
Madfield County Wisc.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

John H. Clark, ~~Certified Surveyor for William Leaman deceased~~ United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ~~Jacob D. Blaier~~ United States Surveyor General for ~~Petah~~, bearing date of the ~~23d~~ day of ~~January~~ 1899, No<sup>o</sup>, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ~~Petah~~, the Manual of Surveying Instructions, and the laws of the

United States, surveyed all those parts or portions of ~~The Ensign Valley Guide Meridian on West Boundary of Township 37 South Range 3 West~~ of the ~~Salt Lake City~~ State, of the ~~Salt Lake~~

~~Pearl and~~ meridian, in the ~~State~~ of ~~Petah~~, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ~~Petah~~, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

John H. Clark  
Comptroller of the United States Deputy Surveyor.  
~~William Leaman deceased~~

Subscribed by said John H. Clark, and sworn to before me }  
this ~~29~~ day of ~~August~~, 1905 }

SEAL

W. B. Hancock  
Clerk of Court

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City April 21, 1906

The foregoing field notes of the survey of ~~The Ensign Valley Guide Meridian on West Boundary of Township 37 South Range 3 West of the Salt Lake City Meridian, Petah~~

executed by ~~John H. Clark, Certified Surveyor for William Leaman deceased~~ under his contract No. ~~225~~, dated ~~January 23, 1899~~, No<sup>o</sup>, having been critically examined, and the necessary corrections and explanations made the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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From V.J.F.

4-679.

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BOOK A-332

E.

# FIELD NOTES

X.J.B.

OF THE SURVEY OF THE

S U B D I V I S I O N S

O F

TOWNSHIP THIRTY-SEVEN SOUTH

RANGE NO. THREE WEST

Of the SALT LAKE BASE AND Meridian,

S T A T E O F U T A H,

AS SURVEYED BY

John H. Clark, Compassman for William Lewman, <sup>Deceased.</sup> United States Deputy Surveyor,

Under his Contract No. 225, dated Jan. 23, 1899, 190

Survey commenced September 5th, 1904,

Survey completed October 1st, 1904.

6-161

High 51-12-23  
Low 2-15-05  
Sum 53-33-28

BOOK A 332

**NAMES AND DUTIES OF ASSISTANTS.**

J. Cecil Clark, Chairman & Moundman,

S. Raymond Pratt, Chairman & Moundman.

James L. Clark, Flagman.

James G. Houston, Axeman,

Samuel Clark, Axeman & Flagman.

Alma Ridings Chairman & Moundman,

George Lemons Flagman & Axeman.

John Johnson Axeman.

**Volume**

**#**

**R0332**

## INDEX DIAGRAM.

Township 37 South, Range 3 West S.S.B.M. Wash

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Meanders Page \_\_\_\_\_

PRELIMINARY OATHS OF ASSISTANTS.

WE,

*Cecil Clark*

and *Raymond Pratt*

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

*of the subdivisions of Tp. 37 S. R. No. 3 N. A. P. M.*  
Block

*Cecil Clark*, Chainman

*S. R. Pratt*, Chainman

Subscribed and sworn to before me this 20<sup>th</sup>

day of *August*, 1904

my commission expires *Feb. 15, 1906*



*W. P. Argus*

Notary Public

WE,

*Cecil Clark*

and *Raymond Pratt*

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

*of the subdivisions of Tp. 37 S. R. No. 3 N. A. P. M.*  
Block

Moundman

*Cecil Clark*

Moundman

Subscribed and sworn to before me this 20<sup>th</sup>

day of *August*, 1904

my commission expires *Feb. 15, 1906*



*W. P. Argus*

Notary Public

WE,

*James G. Houston*

and *Samuel Clark*

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

*the subdivisions of Tp. 37 S. R. No. 3 N. A. P. M.*  
Block

Axman

*Samuel Clark*

Axman

Subscribed and sworn to before me this 20<sup>th</sup>

day of *August*, 1904

my commission expires *Feb. 15, 1906*



*W. P. Argus*

Notary Public

*The Samuel Clark & Clark* do solemnly swear that we will well and truly perform the duties of flagman according to instructions given us, to the best of our skill and ability, in the survey of *the subdivisions of Tp. 37 S. R. No. 3 N. A. P. M.*  
Block

*Samuel Clark*

Flagman

Subscribed and sworn to before me this 20<sup>th</sup>

day of *August*, 1904

my commission expires *Feb. 15, 1906*



*W. P. Argus*

Notary Public

I, Alma Ridings do solemnly swear that I will well and faithfully execute the duties of Chairman; that I will level the chain over even an uneven ground, and plumb the tally pins, either by sticking or dropping the same; that I will report the true distances and all notable objects, and the true length of the line that I assist in measuring, to the best of my skill and in accordance with the instructions given me by the Subdivision Surveyor in the Survey of Jp. 375 R.

J. S. B. M. Wsh

Alma Ridings Chairman

Subscribed and sworn to before me this 17<sup>th</sup>  
day of September 1904

John H. Clark, Comptroller  
United States Deputy Surveyor  
William Lewman, Deceased

I, Alma Riding, do solemnly swear that I will well  
and truly perform the duties of Mormonman, in  
the establishment of corners, according to instruction  
given me, to the best of my skill and ability,  
in the survey of the Subdivisions of Tp 37 South  
Range 3 West S. 27 E. Utah.

(Alma Riding, Mormonman)

Subscribed and sworn to before me  
this 17<sup>th</sup> day of September 1904

John H. Clark, Commissioner  
United States Deputy Surveyor  
William Swanson, Deacon

BOOK A-332 20c  
We, John Johnson and George Lernons do solemnly  
wras that we will well and truly perform the  
duties of Axeman in the establishment of corners  
and other duties, according to instructions given  
us, to the best of our skill and ability, in the  
Survey of the Subdivisions of Tp. 87 S. Range 3 W.

J. J. B. M. Utah

Inscribed and sworn to  
before me this 17<sup>th</sup>  
day of September 1904

{ George Lernons Axeman  
John Johnson Axeman

John H. Clark, Comptassant  
United States Deputy Surveyor  
William Lewman, Deceased

J. George Simons, do solemnly swear that I will well and truly perform the duties of Flagman according to instructions given me, to the best of my skill and ability in the Survey of the Subdivision of Tp. 37 S. Range 8 West, S.L.D.P.W.Utah.

Scribed and sworn before me { George Simons  
This 17th day of September, 1904 } Flagman

John H. Clark, Commissioner  
United States Deputy Surveyor  
William Newman, Deed

## Subdivision of T. 37 S. R. 3 W.

Chains.

Survey commenced Sept. 5, 1904, and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a true meridian determined by observations on Polaris I proceed as follows:-

At the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of the T., set by me and heretofore described, lat.  $37^{\circ}33'N.$  long.  $112^{\circ}08'W.$ ; I set off  $37^{\circ}33'W$  on the lat. arc;  $6^{\circ}44'N.$  on the decl. arc; and at 4h p.m., l.m.t., determine with the solar a true meridian.

As it is not convenient to observe Polaris at this point on account of steep slope

I run

N. $0^{\circ}01'W.$  bet. secs. 35 and 36

Along side of hill, over small side ridges of sand, through scattering brush and cedar and pinion timber.

7.35 Descend along NE. point of hill.

10.45 Descend very abruptly, through heavy timber.

11.43 Bottom of small gulch, drains NE.

12.20 Top of small ridge, bears E. and W.

12.70 Descend over small ridges and hollows, course E.

19.36 Bottom of gulch, course N. $65^{\circ}E.$

21.00 Top of ridge, bears NE. and SW. Descend and enter heavy brush.

24.00 Bottom of hill, and over level of Yellow Creek Flat.

40.00 Set a sandstone 18x6x5 ins., 12 ins. in the ground for sec. cor., marked  $\frac{1}{4}$  on W. face; from which

A pinion pine 12 ins. in diam. bears N. $45^{\circ}W.$  116 lks. dist., marked  $\frac{1}{4}$  S 35 BT

A pinion pine 12 ins. in diam. bears S. $87^{\circ}E.$  68 lks. dist., marked  $\frac{1}{4}$  S 36 B T

Subdivision of T. 37 S. R. 3 W.

Chains.	
41.40	Leave timber, bears E. to SE. and W.
42.93	Road to Wm. Farmer's ranch bears SE. and NW.
43.60	S. edge of Yellow Creek wash, course SE., 10 ft. deep.
46.90	N. side of wash, now dry.
47.73	S. edge of elbow of Yellow Creek Wash, course SW.
48.82	N. side of elbow.
80.00	Set a sandstone 18x5x6 ins., 12 ins. in the ground for cor. of secs. 25, 26, 35, and 36, marked with 1 notch on the S. and 1 notch on the E. edges; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; raise a mound of earth 4 ft. base 2 ft. high around cor., to protect it from cattle and sheep. Land, rough and mountainous 24.00 chs.; level but broken 56.00 chs.
	Soil, sand and rock and sandy loam with gypsum on the hill; 2d and 4th rate. The soil of the flat is impregnated with a mild alkali washed from the hills.
	Timber, cedar and pinion pine.
	Brush, sage rabbit, and scrub oak on the flat, with deer and grease wood on the hill.
	Mountainous land, heavily timbered or covered with dense undergrowth on 80.00 chs.
	At this point at 5h p.m., l.m.t., I set off $37^{\circ}34'N.$ on the lat. arc; $6^{\circ}44'N.$ on the decl. arc; and determine a true meridian with the solar apparatus, and mark a point in the line thus determined by a tack in a peg set 5.00 chs. N. of my station.
	At 8h 26m p.m. l.m.t., I observe Polaris at eastern elongation in accordance with the instructions given in the manual, and mark the line thus determined by a nail in a peg set 5.00 chs. N. of my station.

Sept. 5, 1904.

---

Sept. 6.: At 6h 30m a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}31'$  to the west and mark the true meridian thus

Subdivision of T. 37 S. R. 3 W.

Chains.

determined by a tack driven in the peg set Sept. 5, on which the true meridian falls 0.4 ins. E. of the mark determined by the solar.

At 7h a.m., l.m.t., I set off  $37^{\circ}34'W$  on the lat. arc;  $6^{\circ}31'N.$  on the decl. arc; and mark a point in the true meridian determined with the solar, by a tack driven in the peg already set 5.00 chs. N. of my station; this mark falls 0.4 inch east of the true meridian established by Polaris observation.

The solar apparatus by a.m. and p.m. observations, defines positions for true meridians, respectively about  $0'21''W.$  and E. of the meridians established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of said true meridian, at 7h 30m a.m. is  $N.15^{\circ}52'W.$ ; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl.  $15^{\circ}49'E.$

From the cor. of secs. 25, 26, 35, and 36, set by me Sept. 5 and previously described

I run

East.. on a random line bet. secs. 25 and 36.

40.00

Set temp.  $\frac{1}{4}$  sec. cor.

80.02

Intersect the E. bdy. of the T. at the cor. of secs. 25, 30, 31, and 36, which is a cedar post 4ins. square and 12 ins. above ground, firmly set, marked, and witnessed as described by the surveyor general.

Thence I run

West, on a true line bet. secs. 25 and 36.

Over level hill top, through heavy cedar and pinion pine.

14.00

Descend abruptly about 90 ft. from hill, bears N. and S., over sandstone ledges.

20.00

Foot of hill and enter heavy brush.

20.80

Dry wash, 4 ft. deep, 20 lks. wide, drains SW.

30.20

Dry wash, 4 ft. deep, 20 lks. wide, drains SW.

Subdivision of T. 37 S. R. 5 E.

Chains.

- 32.00 Leave cedar and pinion pine timber, bears NW. and SE.
- 40.01 Set a sandstone 20x6x6 ins., 15 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked 4 on N. face; dig pits 18x18x12 ins., E. and W. of stone - 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.
- 44.00 Dry wash, 12 ft. deep, 50 lks. wide, drains S.
- 66.00 Enter N. edge of scattering cedars, bear N. and S.
- 68.00 Leave cedars and over level ground.
- 80.02 The cor. of secs. 25, 26, 35, and 36.  
Land, level but broken to mountainous.  
Soil, sandy and clay loam, with sandstone ledges; 2d and 4 th rate.  
Timber, cedar and pinion pine, heavy on 32.00 chs.  
Brush, sage, rabbit, and greasewood.  
Mountainous land or land heavily timbered, or covered with dense under growth on 80.02 chs.  
At this point at 8h 58m., l.m.t., I set off  $37^{\circ}34'N.$  on the lat. arc;  $6^{\circ}28'N.$  on the decl. arc, and determine a true meridian with the solar.

Thence  $\frac{1}{4}$  run

N.  $0^{\circ}01'W.$  bet. secs. 25 and 26.

Over Yellow Creek flat; dense brush.

- 30.56 Base of high cliffs, 400 ft. high, bears E. and N.  $10^{\circ}W.$   
Point for  $\frac{1}{4}$  sec. cor. falls on impassable mountain, cor. cannot be set; therefore at this point I  
Set a sandstone 20x6x5 ins., 15 ins. in the ground, for W.C. to  $\frac{1}{4}$  sec. cor., marked W C  $\frac{1}{4}$  on W. face; from which  
A cliff 250 ft. high bears NE. 5 ft. dist., marked  
W C  $\frac{1}{4}$  S 25 E O  
A cliff 30 ft. high bears NW. 5 ft. dist., marked W.  
C  $\frac{1}{4}$  S 26 E O

As ascent of mountain is impossible at this point, I return to

- 27.625 Offset peg, from which I offset S.  $89^{\circ}59'W.$  8.11 chs.

## Subdivision of T. 37 S., R. 3 W.

- Chains Thence N.0°01'W. 9.76 chs. to
- 37.415 Base of hill. Thence I offset S.28°59'W. 12.15 chs.  
Thence N.0°01'W. 12.085 chs. to
- 49.50 Offset peg from which I offset N.89°59'E. 9.50 chs.  
Thence N.0°01'W. 30.50 chs. along base of hill bears N.  
and S. to SE.
- 55.37 Wash 6 ft. deep, 10 lks. wide, course SW.
- 56.39 Wash 7 ft. deep, 15 lks. wide, course SW.
- 56.72 Wash 5 ft. deep, 8 lks. wide, course SW.
- 68.20 Over small ridge from cliff's, bears E. and W.
- 69.05 Dry wash 10 ft. deep, 25 lks. wide, course SW.
- 70.07 Dry wash 16 ft. deep, 30 lks. wide, course W.
- 72.40 Dry wash 16 ft. deep, 45 lks. wide, course W.
- 73.90 Dry wash 12 ft. deep, 45 lks. wide, course W.
- 74.42 Dry wash 7 ft. deep, 70 lks. wide, course SW.
- 80.00 Offset peg, from which I offset N.89°59'E. 10.76 chs. up  
a cove in mountain to subdivision line, on abrupt  
slope,  
Set a sandstone 28x10x8 ins., 21 ins. in the ground for  
cor. of secs. 23, 24, 25, and 26, marked with 2 notches  
on the S., and 1 notch on the E. edges; dig pits 18x18  
x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of  
earth 4 ft. base, 2 ft. high W. of cor.  
As the pits may fill in and the mound be washed away I  
raise a mound of stone 4 ft. base, 2 ft. high on a large  
boulder S.7°W. 59 lks. dist.  
Land mountainous and broken.  
Soil on mountain worthless; on offset clay and sandy  
loam; 3d and 4th rate.  
Timber scattering cedar and pinon pine on 50.00 chs.  
Brush, sage, rabbit, with clumps of dense oak on 80.00 chs.  
Mountainous land or land covered with dense undergrowth  
on 80.00 chs.

---

East on a random line bet. secs. 24 and 25,

Subdivision of T. 37 S., R. 3 W.

- Chains.  
40.00 Set temp. & sec.cor.  
79.95 Intersect the E.bdy.of Tp.10 lks.N.of cor.of secs.19,24,  
25, and 30, which is a cedar post 4 ins.sq, 24 ins.  
above ground, firmly set, marked and witnessed as de-  
scribed by the surveyor general. Thence I run  
N.89°56'W.on a true line bet.secs.24 and 25,  
0.01 Fence along W.side of street of Cannonville, bears N.2°  
40'W.and S.2°40'E.  
Over pasture belonging to J.Davis through dense brush.  
9.00 Leave pasture.  
9.50 Ascend abruptly up red sandstone ledges, bearing NW. and  
SE., and white clay hill, 300 ft.high.  
28.00 Top of hill bears N. and SW., at this point. Enter heavy  
pinon pine.  
39.971 Set a sandstone 36x5x4 ins., 27 ins.in the ground for  $\frac{1}{4}$   
sec.cor., marked  $\frac{1}{4}$  on N.face; dig pits 18x18x12 ins.E.  
and W.of stone 3 ft.dist.; and raise a mound of earth  
and stone  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high N.of cor.  
70.50 Descend abruptly over ledges into cove, drains W.; leave  
heavy timber, bears SW. and NW.  
79.95 The cor.of secs.23,24,25, and 26.  
Land rough and mountainous to level.  
Soil rocky and sandy loam; worthless and 2d rate.  
Timber heavy cedar and pinon pine.  
Brush, sage, rabbit, deer, greasewood and thimble-berry.  
Mountainous land or land covered with heavy timber or  
dense brush on 79.95 chs.  
Cloudy. Solar observations impossible. Sept.6, 1904.

---

Sept.7: Cloudy.

N.0°01'W.bet.secs.23 and 24,

Note: This line cannot be run north from the cor.to secs.  
23,24,25, and 26 on account of impassable ledges;there-  
fore from the offset peg set 10.76 chs.S.89°59'W.of  
said cor.I run N.0°01'W.on offset line along base of

## Subdivision of T. 37 S., R. 3 W.

Chains.	mountain.
16.00	Dry wash 8 ft. deep, 40 lks. wide, course S.5°W.
17.50	Offset peg on brink of main wash, 15 ft. deep, 70 lks. wide, course S., from which I offset N.89°59'E.8.00 chs. Thence N.0°01'W. 29.37 chs.
	Ascend up gulch, course S., then W.
30.00	Ascend abruptly up mountain, 300 ft. high, bears NW. and SE at this point.
46.87	Top of mountain. Offset peg from which I offset N.89°59'E. 2.76 chs. to subdivision line. Thence I measure back 1.60 chs. to
45.27	Set a limestone 18x10x3 ins., 12 ins. in the ground for witness cor. to $\frac{1}{4}$ sec.cor., marked W C $\frac{1}{4}$ on W.face; from which A pinon pine 10 ins. in diam. bears N.35°E. 35 lks. dist., marked W C $\frac{1}{4}$ S 24 B T No other trees available to mark; raise a mound of stone $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
	Cloudy- rain. Solar observation impossible. Sept. 7, 1904. Sept. 8: At this point at 7 h.58 m.a.m.l.m.t. I set off 37°35'N. on the lat.arc; 5°44'N. on the decl.arc; and determine a true meridian with the solar. The resulting line lies 0°01'E. of my line of sight.
	Along side of ridge, bears N. and S., through heavy cedar and pinon pine.
55.40	Small flat, irregular course, mainly E. and W.
71.60	Leave timber, course circular.
80.00	Set a sandstone 17x6x5 ins., 11 ins. in the ground for cor. of secs. 13, 14, 23, and 24, marked with 3 notches on the S., and 1 notch on the E.edges; dig pits 18x18 x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high around cor.
	Land mountainous on 29.37 chs.; level but broken 17.50 chs.; level to hilly. 33.13 chs.

## Subdivision of T. 37 S., R. 3 W.

Chains.

Soil sandy and clay loam on flats; rocky on mountain;  
also gravel and sandy loam, 2d and 3rd rate, and  
worthless.

Timber, cedar and pinon pine, dense on 26.33 chs.

Brush, sage, rabbit, and some greasewood.

Mountainous land or covered with heavy timber or dense  
brush on 80.00 chs.

S.89°56'E.on a random line bet.secs.13 and 24,

40.00 Set temp. $\frac{1}{4}$  sec.cor.

79.94 Intersect the E.bdy.of the Tp.11 lks.N.of the cor.of  
secs.13,18,19, and 24, which is a flint rock 4x10x8  
ins.above ground, firmly set and marked and witnessed  
as described by the surveyor general. Thence I run

N.89°51'W.on a true line bet.secs.13 and 24,  
Through alfalfa field belonging to Wm.Henderson.

8.50 Picket fence bears N. and S.; irrigation ditch, course  
S. Enter brush.

9.75 Public road from Tropic to Cannonville, bears N. and S.

15.00 Ascend abruptly, and leave brush.

21.00 Top of ridge about 150 ft.high, bears N. and S.; and de-  
scend abruptly into gulch 100 ft.deep, course S.

27.00 Bottom of gulch, and ascend abruptly 150 ft.

30.00 Top of ridge on main hill, bears N. and S. Descend  
gradually; enter heavy timber and brush.

39.97 Set a sandstone 18x10x6 ins., 12 ins.in the ground for  
 $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N.face; from which  
A cedar 12 ins.in diam.bears N.4°20'E. 45 lks.dist.  
marked  $\frac{1}{4}$  S 13 B T  
A cedar 6 ins.in diam.bears S.3°E. 25 lks.dist.  
marked  $\frac{1}{4}$  S 24 B T

Descend gradually.

46.15 Ledges on N.edge of cove.or gulch, draining S.  
76.50 Leave heavy cedar and pinon pine, bearing N. and S.  
79.94 The cor.of secs.13,14,23, and 24.  
Land rolling to rough and mountainous.

## Subdivision of T. 37 S. R. 3 W.

Chains.	<p>Soil, clay loam impregnated with alkali, rocky and gravel; 2d and 4th rate.</p> <p>Timber, cedar and pinion pine, dense on 46.50 chs.</p> <p>Brush, sage, deer, grease wood, thimble-berry, and rabbit.</p> <p>Mountainous land, or land heavily timbered, or covered with dense brush on 79.94 chs.</p> <p>Sept. 8: At this cor. I set off <math>5^{\circ}40' N.</math> on the decl. arc, and at 11h 58m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is <math>37^{\circ}35\frac{1}{2}' N.</math> which is the correct lat. approximately.</p>
	<p>Thence I run</p> <p>N.<math>0^{\circ}01' W.</math> bet. secs. 13 and 14.</p> <p>Descend gradually through dense brush.</p>
4.50	Enter cedar and pinion pine.
7.50	Leave timber, bunched.
13.50	Enter very heavy timber, bears E. and W.
30.40	Bottom of small hollow, drains E.
31.90	Top of small ridge, bears E. and W.
37.50	Descend into hollow drains NE. thence E., leave timber.
40.00	Set a white sandstone 24x9x5 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
42.00	Wood road, course NE. and SW.
43.87	Dry wash, 8 ft. deep, drains general NE.; ascend abruptly over small ridge through timber, bears E. and W.
44.10	Descend gradually, very scattering timber.
53.50	Ascend gradually.
56.00	Top of small reef of rocks, bears E. and W.
64.90	Wood road, bears E. and W.; leave dense brush.
69.90	Top of ridge, blue clay, bears E. and W. Descend gradually.
80.00	Point for sec. cor. falls in small wash, drains NW., therefore
80.10	set a sandstone (red) 17x6x5 ins., 11ins. in the ground

## Subdivision of T. 37 S. R. 3 W.

Chains.

for W.C. to secs. 11,12,13, and 14, marked W C on NE. face,  
with 4 notches on the S. and 1 notch on the E. edges;  
from which

A pinion 10 ins. in diam. bears N. $69^{\circ}32'E.$  61 lks.  
dist., marked T 37 S R 3 W S 12 B T

A pinion 8 ins. in diam. bears N. $23^{\circ}37'W.$  42 lks.  
dist., marked T 37 S R 3 W S 11 B T

A cedar 8 ins. in diam. bears S. $50^{\circ}E.$  68 lks. dist.,  
marked T 37 S R 3 W S 13 B T

No other trees available to mark; dig pits 18x18x12 ins.  
in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth  
4 ft. base, 2 ft. high W. of cor.

NOTE.- Distances and bearings of trees are from true cor.  
point.

Land, level to hilly.

Soil, sandy, gravelly, and clay loam; 2d rate and worth-  
less. The blue clay loam produces only scanty vegetation.

Timber, Dense cedar and pinion pine on 24.00 chs.,  
scattering timber on 39.13 chs.

Brush, sage, rabbit, grease-wood, deer, and thimbleberry.

Dense timber or heavy brush on 80.00 chs.

Cloudy, during p.m., solar observation impossible.

Sept. 8, 1904.

S. $89^{\circ}51'E.$  on a random line bet. secs. 12 and 13.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.97 Intersect the E. bdy. of the T. at a point 22 lks. N. of  
the cor. of secs. 7,12,13, and 18, which is a sandstone  
<sup>above ground</sup>  
14x10x10 ins. firmly set, marked and witnessed as de-  
scribed by the surveyor general.

Sept. 9: At this point at 8h 58m a.m. I set off  $37^{\circ}$   
 $36\frac{1}{2}'N.$  on the lat. arc;  $5^{\circ}20'N.$  on the decl. arc; and  
determine a true meridian with the solar apparatus.

Thence I run

## Subdivision of T. 37 S. R. 3 W.

Chains	N. $89^{\circ}42'W.$ on a true line bet. secs. 12 and 13.
	Through dense brush.
2.47	Dry wash, 3 ft. deep, 15 lks. wide, drains SW.
5.50	Dry wash, 8 ft. deep, 50 lks. wide, drains SW.
10.00	Public road bet. Tropic and Cannonville, bears N. and S.
24.43	Descend into Paria Creek wash, small stream of water, 12 lks. wide, 6 ins. deep, drains irregularly SE.
29.47	Ascend abruptly up cliffs, 60 ft. high, and leave creek bed.
31.94	Top of cliff ridge, bears N. and S. from high hill on S. Ascend, along N. slope of hill, on S. side of canyon, drains SE. Enter scattering timber, pinion pine and cedar.
38.50	Top of ridge, bears N. and S., and descend abruptly 45 ft.
39.67	Bottom of gulch, drains N. Ascend abruptly.
39.98	Set a sandstone 20x9x4 ins., 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\pm$ on N. face; raise a mound of stone 4 ft. base, 2 ft. high N. of cor. Pits impracticable.
43.50	Top of ridge, bears N. and S., and descend.
48.00	Ascend.
52.80	Top of ridge, bears N. and S.
57.00	Bottom of gulch, drains N., ascend abruptly.
57.70	Top of hill, bears NW. and SE, then S., and leave S. edge of canyon. leave heavy brush.
62.20	Bottom of small gulley, 20 ft. deep, 60 lks. wide, drains N.
65.50	Leave scattering cedar and pinion pine.
67.30	Top of low ridge, bears N. and S. and descend very gradually.
70.20	Bottom of small hollow, drains N., ascend gradually.
73.40	Top of small ridge, bears N. and S., and descend gradually.
75.50	Enter scattering cedar and pinion pine, bears N. and S.
79.97	The cor. of secs. 11, 12, 13, and 14.
	Land level to mountainous.
	Soil, sandy and blue clay on hill, and sandy loam in valley; 4th rate and worthless and 1st rate.
	Timber, scattering cedar and pinion pine on 38.00 chs.

## Subdivision of T.37 S. R.3 E.

Chains.

Brush, sage, greasewood, and rabbit on 57.70 chs. in valley and on hill side.

Mountainous land or dense undergrowth on 79.97 chs.

Sept. 9, 1904.

Sept. 10: At 9h 57m.a.m., l.m.t., I set of  $37^{\circ}36\frac{1}{2}'$  N. on the lat. arc;  $4^{\circ}56'$  N. on the decl. arc; and determine a true meridian with the solar, at cor. of secs. 11, 12, 13, and 14. N.  $0^{\circ}01'$  W. bet. secs. 11 and 12.

Over mountainous land through heavy cedar and pinion pine.

- 7.50 S. edge of canyon 100 ft. deep, drains E. Descend abruptly.
- 20.69 N. side of canyon and ascend to top of hill.
- 26.80 Top of hill, bears E. and W.
- 31.00 Bottom of hollow, drains E., and ascend.
- 32.90 Top of ridge, bears E. and W. and descend.
- 35.00 Bottom of hollow ~~Bottom of hollow~~, course SE., and ascend.
- 37.50 Top of ridge, bears E. and W. and descend gradually.
- 40.00 Set a sandstone 14x8x5 ins., 9 ins. in the ground for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{4}$  on W. face; from which  
A pinion 9 ins. in diam bears S. $16^{\circ}15'$  W. 50 lks.  
dist., marked  $\frac{1}{4}$  S 11 B T  
A pinion 14 ins. in diam. bears N. $15^{\circ}$  E. 46 lks.  
dist., marked  $\frac{1}{4}$  S 12 B T
- 41.40 Ascend.
- 42.50 Top of small ridge, bears E. and W.
- 44.00 Bottom of small hollow, drains E.
- 45.40 Over small ridges and hollows, course E.
- 61.00 Edge of dry wash, 18 ft. deep, drains E., and descend.
- 61.40 Bottom of wash, drains SE.
- 63.35 Top of ridge, bears E. and W. Over small hollows.
- 74.65 Top of ridge and descend gradual ridge, bears E. and W.
- 80.00 Set a sandstone 16x13x5 ins., 11 ins. in the ground for cor. of secs. 1, 2, 11, and 12, marked with 5 notches on the S. and 1 notch on the E edges; from which  
A pinion pine 10 ins. in diam. bears N. $68^{\circ}$  E. 64 lks.  
dist., marked T 37 S R 3 W S 1 B T

## Subdivision of T. 37 S., R. 3 W.

Chains.

A pinon pine 16 ins.in diam.bears N. $30^{\circ}$ W.34 lks.

dist., marked T 37 S R 3 W S 2 B T

A pinon pine 18 ins.in diam.bears S. $65^{\circ}$ E. 37 lks.

dist., marked T 37 S R 3 W S 12 B T

A pinon pine 14 ins,in diam.bears S. $86^{\circ}$ W. 31 lks.

dist., marked T 37 S R 3 W S 11 B T

Land rolling to mountainous.

Soil sandy and gravelly loam; 3d rate.

Timber dense cedar and pinon pine on 80.00 chs.

Brush, sage, rabbit, and thimble berry.

Dense timber and mountainous land on 80.00 chs.

Sept.10: At this cor.I set off  $4^{\circ}54'$ N.on the decl.arc; and at 11h 57m a.m.l.m.t.observe the sun on the meridian; the resulting lat.is  $37^{\circ}37'$ N.

S. $89^{\circ}42'$ E.on a random line betsecs.1 and 12,

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.00 No trace of the cor.of secs.1,6,7, and 12, nor of the witness cor.set by Deputy Lewis under his contract No. 211, 2.00 chs.S.of true cor.point; the creek has changed its course, and no doubt the stone has been washed away. Set temp.cor.to secs.1,6,7, and 12.

I then go to the NE.cor.of Tp., which is a cedar post 4ins.sq., 12 ins.above ground, marked and witnessed as described by the surveyor general, and run

South on a true line betsecs.1 and 6,

40.00 Find  $\frac{1}{4}$  sec.cor., which is a cedar post 4 ins.square, 12 ins.above ground, marked and witnessed as described by the surveyor general.

80.00 Intersect temp.cor.of secs.1,6,7, and 12.

As permanent cor.cannot be set at this point, I run E. 50 lks., where I set a red sandstone 16x8x6 ins., 11 ins.in the ground for witness corner to cor.of secs. 1,6,7, and 12, marked W C on NE.face, with 1 notch

## Subdivision of T. 37 S., R. 3 W.

- Chains. on the N. and 5 notches on the S.edges; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Pits impracticable.
- From true cor. point I run  
 N. $89^{\circ}42'W.$  on a true line bet. secs. 1 and 12,  
 Descending over rocks and bank into Paria Creek wash.
- 4.90 Paria River 20 lks. wide, 4 ins. deep, drains S.
- 5.30 Leave Paria Creek wash, drains SE., then S. Fence around W. Meecham's field, bears NW. and SE. Through heavy brush and willows.
- 15.10 Fence, bears N. and S., and corral belonging to W. Meecham on E. side of road bet. Tropic and Cannonville, bears N. and S., then NW.
- 15.85 West side of road and enter W. Meecham's yard.
- 16.60 South side of W. Meecham's house and ascend.
- 37.00 Top of ridge of hill, bears NW. and SE., and ascend gradually. Enter timber bears N. and S.
- 40.00 Set a sandstone 17x10x5 ins., 11 ins. in the ground for  $\frac{1}{4}$  sec. cor.; marked  $\frac{1}{4}$  on N. face; from which  
 A cedar 14 ins. in diam. bears S. 2 lks. dist.  
 marked  $\frac{1}{4}$  S 12 B T  
 A pinon pine 12 ins. in diam. bears N. $25^{\circ}W.$  82 lks. dist., marked  $\frac{1}{4}$  S 1 B T
- 45.10 Top of main ridge of hill, bears N. and S.; descend gradually.
- 51.25 Descend abruptly into gulch, 100 ft. deep, drains SE.
- 55.50 Bottom of gulch and ascend abruptly.
- 60.60 W. side of gulch, and ascend gradually.
- 63.60 Top of ridge, bears SE. and NW., and descend into head of large hollow, drains SE.
- 66.00 Wood road bears SE. and NW.
- 67.20 W. side of hollow.
- 69.00 Wood road bears NW. and SE.
- 71.00 Bottom of small hollow, 15 ft. deep, drains SE.
- 75.00 W. side of hollow, 15 ft. deep, drains SE.

## Subdivision of T. 37 S., R. 3 W.

Chains 79.40	Bottom of dry wash, 8 ft. deep, drains SE., and ascend.
80.00	The cor. of secs. 1, 2, 11, and 12.  Land rough and mountainous to level but broken.  Soil gravelly loam on hill; sandy loam in valley; 4th and 1st. rate.
	Timber cedar and pinon pine.  Brush, sage, thimble-berry, rabbit, and willows.
	Mountainous land or land heavily timbered or covered with dense undergrowth on 80.00 chs.
	Sept. 10: At this cor. at $3^{\text{h}} 57^{\text{m}}$ m.p.m.l.m.t. I set off $37^{\circ}$ $37' \text{N.}$ on the lat.arc; $4^{\circ} 51' \text{L.N.}$ on the decl.arc; and de- termine a true meridian with the solar.
	  $N.0^{\circ}01' \text{W.}$ on random line bet. secs. 1 and 2
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.37	Intersect N.bdy. of Tp. 25 1ks.E. of cor. of secs. 1, 2, 35, and 36, which is a cedar post 4 ins. square, 1 ft. above ground, firmly set, marked and witnessed as de- scribed by the surveyor general.
	Thence I run
	$S.0^{\circ}12' \text{E.}$ on a true line bet. secs. 1 and 2,
	Over cultivated fields.
4.47	Board fence, bears E. and W.
14.57	Wire fence, bears E. of S., and W. of N.
	Enter sage, rabbit, and greasewood brush.
25.04	Wire fence bears E. and W.; enter alfalfa patch.
38.67	Rider fence bears SE. and NW.; leave fields, and enter medium heavy brush.
39.37	Set a sandstone $16 \times 5 \times 7$ ins., 11 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; raise a mound of earth and stone 2 ft. base, $1\frac{1}{2}$ ft. high W.of cor. Pits imprac- ticable.
44.82	County road bet. Tropic and Cannonville, bears SE. and NW., and ascend.

Subdivision of T. 37 S., R. 3 W.

Chains.	
54.57	Base of hill 100 ft. high, and ascend. Leave valley and enter dense brush.
59.82	Enter cedar and pinon timber bears E. and W.
63.02	Top of hill or ridge, bears E. and W., and descend very abruptly into gulch 100 ft. deep, drains E.
67.02	Bottom and ascend abruptly.
68.07	Top of ridge and descend into small gulch 12 ft. deep, drains E.
71.07	S.side of hollow, and enter very heavy cedar and pinon pine.
78.37	Bottom of small hollow, drains SE., and ascend.
79.37	The cor.of secs.1,2,11, and 12.
51.17 51.90	Land mountainous to level. Soil gravelly on hill; sandy and clay loam in valley; 4th and 1st rate.
	Timber cedar and pinon pine.
	Brush, sage, rabbit, greasewood, deer, and thimble-berry.
	Mountainous land or heavily timbered or covered with dense undergrowth on 51.17 chs.

Sept.10, 1904.

Sept.12:	At 7h 56m a.m.l.m.t. I set off $4^{\circ}13'N.$ on the decl.arc; $37^{\circ}33'N.$ on the lat.arc; and determine a true meridian with the solar at the cor.of secs.2,3, 34, and 35, on the S.bdy.of the T., heretofore described. Thence I run $N.0^{\circ}01'W.$ bet.secs.34 and 35, Ascend through heavy cedar and pinon pine.
2.00	Top of hill point, course of point N. and S., course of hill E. and W.of N.
7.00	Top of main hill, bears SE. and NW.
11.80	Descend into hollow, 50 ft. deep, drains SE.
14.50	Bottom of hollow, and ascend.
17.75	Top of ridge, bears E. and W.; and descend.

## Subdivision of T. 37 S., R. 3 W.

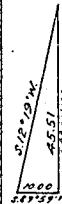
Chains. 19.80	Bottom of hollow, drains SE.
25.00	Top of ridge, bears NW. and SE., and descend into hollow 75 ft. deep.
31.67	Dry wash 18 ft. deep, drains SW., and ascend.
40.00	Set a sandstone 20x8x4 ins., 15 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which A pinon pine 12 ins. in diam. bears N.30°E. 25 lks. dist., marked $\frac{1}{4}$ S 35 B T A pinon pine 10 ins. in diam. bears N.47°20'W. 29 lks. dist., marked $\frac{1}{4}$ S 34 B T
42.00	Top of level hill, bears NW. and SE.
51.47	Edge of bluffs or ledges leading into canyon, bears NW. and SE.; descend abruptly.
65.00	Ascend abruptly.
80.00	Point for cor.of secs.26,27,34, and 35, falls on ledges and cannot be set.  Land rough and mountainous.  Soil sandy and gravelly loam; 2d and 3d rate.  Timber cedar and pinon pine.  Brush, sage, thimble-berry, deer and scrub oak.  Mountainous land heavily timbered on 80.00 chs.
3.90 $\frac{1}{2}$	N.0°01'W.bet.secs.26 and 27  Top of ledges, bear SW. and NW.  Set a sandstone 18x6x5 ins., 14 ins. in the ground for witness cor.of secs.26,27,34, and 35, marked W.C on NE.face, with 1 notch on the S. and 2 notches on the E.edges; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W.of cor., and blazed a very small pinon pine 20 lks. SE. of witness corner. Pits impracticable.  East on an offset random line bet.secs.26 and 35,  Base of cliffs. Offset 3.90 $\frac{1}{2}$ chs.S.0°01'E. to true line.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect N. and S.line 3 lks.N.of cor.of secs.25,26,35

Subdivision of T. 37 S., R. 3 W.

- Chains. and 36. Thence I run  
N. $89^{\circ}59'W$ .on a true line bet. secs. 26 and 35,  
Through dense brush over level land.  
7.50 Small dry wash, 8 ft. deep, 10 lks. wide, drains S.  
10.00 Enter scattering cedar and pinon pine, bears NW. and SE.  
18.50 Dry wash 15 ft. deep, drains S.  
20.25 W.side of wash; old rider fence, bears N. and S.; former  
boundary of Joseph Asay's land claim. New wire fence  
lies NW. 10.00 chs.  
32.00 Road to W.Farmer's ranch, bears NW. and SE.  
39.00 Yellow Creek wash dry, drains SE. Enter heavy timber.  
40.02 Set a sandstone 18x6x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$   
sec.cor., marked  $\frac{1}{4}$  on N.face; from which  
A pinon pine 16 ins. in diam. bears N. $32^{\circ}W$ . 18 lks.  
dist., marked  $\frac{1}{4}$  S 26 B T  
A cedar 10 ins. in diam. bears S. $47^{\circ}30'W$ . 55 lks.  
dist., marked  $\frac{1}{4}$  S 35 B T  
From this cor. the SE.cor. of W.Farmer's fence lies NE.  
10.00 chs. The ranch house in the middle of the sec.  
cannot be seen from any near point on this line. It is  
about 35.00 chs. NW. of the  $\frac{1}{4}$  sec.cor. just set.  
65.25 Base of cliffs, 400 ft. high, and offset point from which  
I offset N. $1^{\circ}W$ . 3.90  $\frac{1}{2}$  chs.; thence N. $89^{\circ}59'W$ . 14.79 chs. to  
80.04 The witness cor. to corner of secs. 26, 27, 34, and 35.  
Land mountainous to level.  
Soil rocky and sandy loam; worthless and 1st. rate.  
Timber cedar and pinon pine, dense on 41.04 chs.; scat-  
tering on 29.00 chs.  
Brush sage, rabbit, greasewood, scrub oak, thimble-berry,  
and deer.  
Mountainous land or land covered with dense timber or  
heavy brush on 80.04 chs.  
Cloudy; solar observation impossible. Sept. 12, 1904.

## Subdivision of T. 37 S., R. 3 W.

- Chains Sept. 13: At 7 h.26 m.a.m.l.m.t. I lay off  $37^{\circ}34'N.$  on the lat.arc;  $3^{\circ}51'N.$  on the decl.arc, and determine a true meridian with the solar at the witness corner to cor. of secs. 26, 27, 34, and 35, which is 3.905 chs. N.  $0^{\circ}01'W.$  of true cor. point. Thence I run  
 $N.0^{\circ}01'W.$  bet. secs. 26, and 27,  
over top of hill; through timber.
- 14.90½ N.edge of hill; descend over cliffs.  
As it is impossible for chainmen to descend the cliffs, I triangulate as follows:- Set flag on line on north side of cliffs; then measure a base  $S.89^{\circ}59'W.$  10.00 chs. From flag on line west end of base bears  $S.12^{\circ}19'W.$ ; cot. $12^{\circ}20'$  x 10.00 = 45.736; angle of elevation of flag on line  $5^{\circ}44'$  horizontal distance 45.51 chs. which added to 14.905 = 60.41½.
- Thence I run back  $20.41\frac{1}{2}$  chs., and at  
40.00 Set a sandstone 24x8x3 ins., 18 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face; from which  
A pinon pine 12 ins. in diam. bears  $S.1^{\circ}30'W.$  61 lks. dist., marked  $\frac{1}{4}$  S 27 B T  
A pinon pine 12 ins. in diam. bears  $N.29^{\circ}E.$  77 lks. dist., marked  $\frac{1}{4}$  S 26 B T  
W. Farmer's house lies approximately a little south of E. 25.00 chs.  
Thence I run  
 $N.0^{\circ}01'W.$  from  $\frac{1}{4}$  sec.cor. bet. secs. 26 and 27,  
47.50 Small dry wash, 6 ft. deep, 20 lks. wide, drains E.  
50.50 Edge of bend of Yellow Creek wash, drains SE., 15 ft. deep.  
51.15 N.edge of bend.  
51.45 Yellow Creek wash, drains E. at this point.  
54.00 Leave Yellow Creek wash, contains a small stream of water 5 lks. wide, 2 ins. deep, drains SE.  
Leave timber bears E. and NW.  
60.41½ Triangulation point.



## SUBDIVISION OF T. 37 S., R. 3 W.

Chains. Enter scattering cedar.

65.66 Dry wash, 3 ft. deep, 20 lks.wide, drains SW.  
Leave scattering timber.

76.00 Dry wash 12 ft.deep; 50 lks.wide, drains SW.

80.00 Set a sandstone 20x10x3 ins., 15 ins.in the ground for cor.of secs.22,23,26, and 27, marked with 2 notches on the S. and 2 notches on the E.edges; from which A boulder 8x6x4 fts.bears N.25°W. 81 lks.dist.  
marked S 22 B 0  
A boulder 8x6x5 ft.bears N.50°E. 136 lks.dist.  
marked S 23 B 0.  
No other bearing objects available; dig pits 18x18x12 ins.in each sec. $5\frac{1}{2}$  ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.  
Land extremely rough and mountainous on 30.00 chs.; level but broken on 50.00 chs.  
Soil in valley sandy loam; 1st and 2d rate; on mountain gravel, 4th rate.  
Timber cedar and pinon pine on 54.00 chs.  
Brush, sage, thimble-berry, and scrub oak.  
Mountainous land or heavy timber or dense brush 80.00 chs.

Sept.13: At 9h 56m a.m.l.m.t.I set off  $3^{\circ}48'N.$  on the decl.arc;  $37^{\circ}35'N.$  on the lat.arc; and determine a true meridian with the solar at cor.of secs.22,23,26 and 27.

Thence I run

$S.89^{\circ}59'E.$ on a random line betsecs.23 and 26

40.00 Set temp. $\frac{1}{4}$  sec.cor.

Sept.13: At this temp. $\frac{1}{4}$  sec.cor.I set off  $3^{\circ}46'N.$  on the decl.arc; and at 11h 56m a.m.l.m.t.observe the sun on the meridian; the resulting lat.is  $37^{\circ}35'N.$ , which is the correct lat.approximately.

80.03 Intersect N. and S.line at cor.of secs.23,24,25 and 26.  
Thence I run  $N.89^{\circ}59'W.$ on true line betsecs.23 and 26.

## Subdivision of T.37 S. R.3 W.

Chains.	
	Descend abruptly down cove, over mountainous land, through scattering timber.
10.73	Foot of hill, leave timber and enter heavy brush.
12.50	Dry wash, 15 ft. deep, 50 lks. wide, drains S.; ascend.
25.00	Top of mountain, bears NE. and SW., enter timber.
40.01	Set a sandstone 24x10x5 ins., 18 ins. in the ground for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinion pine 6 ins. in diam. bears N. 65 lks. dist., marked $\frac{1}{4}$ S 23 B T A pinion pine 8 ins. in diam. bears S. 12° E. 70 lks. dist., marked $\frac{1}{4}$ S 26 B T
75.00	Descend abruptly over ledges, bear SE. and NW., then N.; leave timber.
78.00	Bottom of mountain.
80.03	The cor. of secs. 22, 23, 26, and 27. Land, rough and mountainous. Soil, sandy and rocky, worthless and 2d rate. Timber, cedar and pinion pine. Brush, sage, thimble-berry, deer, and scrub oak. Mountainous land or land heavily timbered or covered with dense brush on 80.03 chs.

N.0°01'W. bet. secs. 22 and 23.

Over rough land.

3.50	Base of mountain and ascend abruptly over boulders.
15.50	Top of rocky ridge, bears E. and W. from E. slope of mountain, bears NW. and SE. Enter heavy cedar and pinion pine timber.
21.50	Top of mountain, bears NW. and SE.
23.00	Enter small clear brush flat, leave timber.
40.00	Set a cedar post 3ft.long; 4ins.sq. 24ins. in the ground for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ S 22 on W. side; 23 on E. face; from which A cedar 16 ins. in diam. bears N. 42° W., 122 lks. dist., marked $\frac{1}{4}$ S 22 B T No other trees available to mark; dig pits 18x18x12 ins.

## Subdivision of T. 37 S. R. 3 W.

Chains	N. and S. of post . 3 ft. dist., and raise amount of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. Cloudy. Solar observation impossible. Sept. 13, 1904.
47.00	Enter heavy cedar and pinion pine timber.
50.00	Ascend gradually.
60.00	Top of main part of mountain, bears E. and W.
80.00	Set a sandstone 14x8x6 ins., 10 ins. in the ground for cor. of secs. 14, 15, 22, and 23, marked with 3 notches on the S. and 2 notches on the E. edges; from which A pinion pine 10 ins. in diam. bears S. $51\frac{1}{2}^{\circ}$ E. $62\frac{1}{2}$ lks. dist., marked T 37 S R 3 W S 23 B T A cedar 16 ins. in diam. bears S. $15^{\circ}32'W.$ $41\frac{1}{2}$ lks. dist., marked T 37 S R 3 W S 22 B T A pinion pine 16 ins. in diam. bears N. $22^{\circ}W.$ $75\frac{1}{2}$ lks. dist., marked T 37 S R 3 W S 15 B T A pinion pine 8 ins. in diam. bears N. $64^{\circ}E.$ 71 lks. dist., marked T 37 S R 3 W S 14 B T Land rough and mountainous and hilly. Soil, gravel and sandy loam; 4th and 2d rate. Timber, cedar and pinion pine. Brush, sage, thimble-berry, and rabbit. Mountainous land, or land covered with dense timber, or heavy brush on 80.00 chs.
40.00	S. $89^{\circ}59'E.$ on a random line bet. secs. 14 and 23. Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect the N. and S. line 10 lks. S. of the cor. of secs. 13, 14, 23, and 24. Thence I run
	S. $89^{\circ}57'W.$ on a true line bet. secs. 14 and 23.
	Var. $15^{\circ}55'E.$
	Through dense brush.
5.20	Enter heavy cedar and pinion timber, bears NE. and SE.,

## Subdivision of T.37 S. R.3 W.

Chains.	and ascend gradually.
11.20	Top of small ridge, bears NW. and SE., 75 ft. high on main part of mountain. Ascend gradually over rolling hill top.
22.20	Top of ridge, bears N. and SE. and descend gradually.
30.20	Leave heavy timber and enter small flat in hollow, drains SE.
40.10	Set a sandstone 28x6x4 ins., 21 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar 12 ins. in diam. bears S.11°50'E. 139 lks. dist., marked $\frac{1}{4}$ S 23 B T A cedar 8 ins. in diam. bears N.88°20'W. 62 lks. dist., marked $\frac{1}{4}$ S 14 B T
42.00	Enter heavy pinion pine and cedar, bears NW. and SE.
48.95	Leave timber, bears N. and S.
54.70	Enter heavy cedar and pinion pine, bears N. and S. and ascend.
56.20	Top of ridge, bears N. and S., from main ridge on S. Descend.
61.00	Ascend.
65.20	Top of ridge, bears N. and S. and descend.
69.40	Leave heavy timber bears N. and S.
70.20	Foot of ridge.
76.70	Enter heavy cedar and pinion pine timber, bears N. and S.
80.20	The cor. of secs. 14, 15, 22, and 23. Land, hilly to rolling. Soil, gravelly loam; 3d rate. Timber, cedar and pinion pine on 49.15 chs. Brush, sage, deer, rabbit, and thimble-berry. Land covered with heavy timber or dense brush on 80.20 chs.
	N.0°01'W. bet. secs. 14 and 15. Through timber and over rough land.
8.00	Leave timber, bears SE. and NW., and enter sage brush flat.
14.50	Enter cedar and pinion pine timber, bears NW. an SE.

## Subdivision of T. 37 S. R. 3 W.

Chains.	
29.00	Leave timber, cedar and pinion, bears NW. and SE.
37.50	Enter Cedar and pinion pine timber, bears NW. and SE.
40.00	Set a granite stone 12x12x10 ins., 8 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; also a small cedar on point cut and marked $\frac{1}{4}$ S on W. side; from which A pinion pine 16 ins. in diam. bears S.6°W. 53 lks. dist., marked $\frac{1}{4}$ S 15 B T A pinion pine 20 ins. in diam. bears S.7°45'E. 38 lks. dist., marked $\frac{1}{4}$ S 14 B T,
43.50	Small dry wash, 3 ft. deep, 20 lks. wide, drains SE.
48.20	Dry wash, 5 ft. deep, 30 lks. wide, drains SE.
48.70	Dry wash, 3 ft. deep, 20 lks. wide, drains SE.
51.75	Top of ridge bears E. and W.; descend abruptly into can- yon, 200 ft. deep, over small hollows draining E. then NE.
59.80	Bottom of small tributary hollow, drains E. Leave heavy timber and enter dense brush. Scattering cedar and pine.
60.50	Top of ridge, bears E. and W.; and descend.
62.85	Bottom of hollow, drains E.; and ascend.
65.80	Top of ridge, bears E. and W.
78.25	Bottom of hollow, drains NE.; and ascend.
80.00	Set a sandstone 18x9x6 ins., 12 ins. in the ground on S. slope of ridge, for cor. of secs. 10,11,14, and 15, marked with 4 notches on the S. and 2 notches on the E. edges; from which A cedar 10 ins. in diam. bears N.62°25'W. 97 $\frac{1}{2}$ lks. dist., marked T 37 S R 3 W S 10 B T A cedar 8 ins. in diam. bears S.74°09'W. 78 lks. dist., marked T 37 S R 3 W S 15 B T
	No other trees available to mark; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth around cor. to keep it from being washed away, by rains. Land, rough and mountainous to level. Soil, sandy and gravelly loam; 2d rate; with blue clay impregnated with alkali on descent to canyon; worthless.

## Subdivision of T.37 S. R.3 W.

Chains.	<p>Timber, dense cedar and pinion pine on 44.80 chs.      Brush, sage, rabbit, thimble-berry, and deer.      Mountainous land, or land covered with heavy timber, or      covered with dense brush on 80.00 chs.      Cloudy, Rain. Solar observation impossible.</p>
	Sept. 14, 1904.
40.00	<p>N. <math>89^{\circ} 57'</math> E. on a random line bet. secs. 11 and 14.      Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
80.25	<p>Intersect the N. and S. line 5 lks. N. of the cor. of      secs. 11, 12, 13, and 14..      Thence I run</p>
15.25	<p>S. <math>89^{\circ} 59'</math> W. on a true line bet. secs. 11 and 14.      Ascend gradually through heavy brush and scattering      cedar and pinion pine timber.      Leave scattering timber, over rolling country sloping N.      to canyon.</p>
40.12 $\frac{1}{2}$	<p>Set a sandstone 24x14x3 ins., 18 ins. in the ground for <math>\frac{1}{4}</math>      sec. cor., marked <math>\frac{1}{4}</math> on N. face; from which          A cedar 9 ins. in diam. bears S. <math>46^{\circ}</math> W. 256 lks.          dist., marked <math>\frac{1}{4}</math> S 14 B T      No other trees available to mark; dig pits 18x18x12 ins.          E. and W. of stone .5 ft. dist., and raise a mound of          earth <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high N. of cor.      Over sage brush flat.</p>
44.25	Leave flat and descend slightly.
50.25	Enter heavy cedar and pinion pine timber, bears N. and S. Ascend gently.
62.55	Descend abruptly, from hill, bears NE. and SW.
65.00	Bottom of hollow, 50 ft. deep, drains N., leave dense timber, bears N. and S. Ascend abruptly.
68.45	Top of large ridge, bears NE. and SW., and descend leav- ing heavy brush.
80.25	The cor. of secs. 10, 11, 14, and 15. Land mountainous to rolling.

## Subdivision of T. 37 S. R. 3 W.

Chains	<p>Soil, clay and sandy loam; worthless and 2d rate.</p> <p>Timber, heavy pinion pine and cedar on 14.75 chs.</p> <p>Brush, sage, rabbit, thimble-berry, and some grease-wood.</p> <p>Mountainous land or land covered with heavy timber, or dense brush on 80.25 chs.</p>
	N. 0°01'W. bet. secs. 10-and 11.
	Over numerous hollows, draining E., and through heavy brush.
21.00	Bottom of main hollow or canyon and ascend over ridges, Hollow drains E., ridges bear E. and W.
31.50	Top of main ridge, 100 ft. high, bears E. and W. Enter extremely heavy pinion pine and cedar. Over ridges, bear E. and W., and hollows, draining E. then SE.
40.00	Set a sandstone 20x6x4 ins, 15 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar 12 ins. in diam. bears S.16°35'W. 13 lks. dist., marked $\frac{1}{4}$ S 10 B T A cedar 8 ins. in diam. bears S.47°E. 18 lks. dist. marked $\frac{1}{4}$ S 11 B T
41.50	Wash, 10 ft. deep, 50 lks. wide, drains E. into large hollow, drains SE.
43.00	Top of ridge, 150 ft. high, bears E. and W.
44.50	Descend into deep wash or gulley, 100 ft. deep, 150 lks. wide, drains E. . . .
49.00	Top of high ridge, bears E. and W. Descend over ridges and hollows, drains SE.
53.00	Descend abruptly into deep gulch, 150 ft. deep, drains SE.
56.00	Top of hill, 200 ft. high, bears NE. and SW.
80.00	Point falls in small wash, draining SE. I set a cedar post 3ft.long,.4ins.sq.,24ins.in ground for cor.tosecs.2,3,10, and 11, mdkd with 5 notches on S. and 2 notches on E.edges; from which A pinion pine 8 ins. in diam. bears S.45°20'W. 28 lks. dist., marked T 37 S R 3 W S 10 B T

## Subdivision of T.37 S. R.3 W.

Chains.	<p>A pinion pine 10 ins. in diam. bears S.12°10'E. 18 lks. dist., marked T 37 S R 3 W S 11 B T</p> <p>A pinion pine 13 ins. in diam. bears N.26°11'E. 46 lks. dist., marked T 37 S R 3 W S 2 B T</p> <p>A cedar 9 ins. in diam. bears N.35°W. 85 lks. dist., marked T 37 S R 3 W S 3 B T</p> <p>Land rough and mountainous.</p> <p>Soil, clay and gravelly loam; 3d and 4th rate.</p> <p>Timber, very dense cedar and pinion pine on 48.50 chs.</p> <p>Brush, sage, thimble-berry, and some grease wood.</p> <p>Mountainous land, or heavy timber, or dense brush on 80.00 chs.</p> <p>Cloudy; rain.</p>	Sept. 15, 1904.
40.00	N.89°59'E. on a random line bet. secs. 2 and 11.	
80.28	Set temp. $\frac{1}{4}$ sec. cor.	
	Intersect the N. and S. line 6 lks. N. of the cor. of secs. 1,2,11, and 12.	
40.14	Thence I run N.89°58'W.on a true line bet. secs. 2 and 11. Through heavy pinion pine and cedar timber and dense brush, over mountain top sloping to the E. and SE.	
	Set a gray granite stone 16x8x7 ins., 13. ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which	
	A cedar 19 ins. in diam. bears S.68°W. 33 lks. dist., marked $\frac{1}{4}$ S 11 B T	
	A pinion 8 ins. in diam. bears N.66°18'W. 60 lks. dist., marked $\frac{1}{4}$ S 2 B T	
44.98	Woodroad, bears SE. and NW.	
58.78	Small dry wash, 4 ft. deep, 10 lks. wide, drains SE.	
80.25	Descend into wash, drains SE.	
80.28	The cedar post set for cor. of secs. 2,3,10, and 11, in the wash.	
	Land rolling to level on top of high hill.	
	Soil, clay and gravelly loam; 2d and 4th rate.	

## Subdivision of T. 37 S. R. 3 W.

Chains.	<p>Timber, cedar and pinion pine, dense.</p> <p>Brush, sage, thimble-berry, and rabbit.</p> <p>Land covered with very heavy timber and dense brush on 80.28 chs.</p>
	<p>Post cor. N. 0°01' W. on random line bet. secs. 2 and 3, may Post cor. to secs. 2, 3, 10 and 11, is liable to be washed away, therefore at the int. .</p>
0.30	<p>Set a sandstone 16x12x12 ins., 11 ins. in the ground for W.C., to cor. of secs. 2, 3, 10, and 11, marked W.C. on NE. face, with 5 notches on the S. and 2 notches on the E. edges; raise a mound of stone 2 ft. base <math>1\frac{1}{2}</math> ft. high W. of cor. Pits impracticable.</p>
40.00	<p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
79.38	<p>Intersect the N. bdy of the T. 45 lks. W. of the cor. of secs. 2, 3, 34, and 35, which is a limestone 14x12x8 ins. above ground, marked and witnessed as described by the suveyor general.</p>
	<p>Thence I run</p>
	<p>S. 0°18' W. on a true line bet. secs. 2 and 3</p>
	<p>Over lot of R. Campbell, formerly owned by W.H. Haliday.</p>
2.58	<p>Pole fence on N. side of street in Tropic, bears E. and W. Leave Campbell's lot.</p>
4.20	<p>S. side of street, wire fence, bears E. and W., enter orchard of W.H. Haliday.</p>
7.18	<p>Wire fence bears E. and W., leave orchard and enter field of alfalfa.</p>
12.25	<p>Wire fence, bears E. and W., and leave field. Ascend abruptly through heavy brush and scattering cedar and pinion pine.</p>
17.38	<p>Top of ridge 190 ft. high, bears E. and W. Leave Tropic valley.</p>
19.38	<p>Descend abruptly 175 ft.</p>
25.38	<p>Descend gradually.</p>
29.38	<p>Level of small valley bet. the ridge or hill on N. and hill on S., bears E. and W. Unfenced land of - Smith.</p>
34.68	<p>Dry wash, 8 ft. deep, 140 lks. wide, drains E. Small</p>

## Subdivision of T.37 S. R.3 W.

Chains	flood in progress. Enter medium heavy pinion pine and cedar, bears E. and W.
39.38	Set a sandstone 20x8x5 ins., 15 ins. in the ground for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 20 ins. in diam. bears S.45°W. 127 lks. dist., marked $\frac{1}{4}$ S 3 B T A pinion pine 17 ins. in diam. bears N.26°E. 71 lks. dist., marked $\frac{1}{4}$ S 2 B T
	Descend into dry wash 2 ft. deep, 100 lks. wide, drains SE.
40.38	Ascend, and enter heavy pinion pine and cedar timber, bears E. and W.
52.58	Top of hill, bears E. and W.
59.18	Road to J.H.Merrills ranch, bears E. and W.
63.00	Woodroad, bears SE. and NW.
64.88	Small dry wash, 5 ft. deep, 8 lks. wide, drains SE.
67.80	Small dry wash, 3 ft. deep, 8 lks. wide, drains SE.
69.35	Dry wash, 3 ft. deep, 10 lks. wide, drains E. then SE.
79.08	The W.C. to cor. of secs. 2,3,10, and 11.
79.38	The true cor. for secs. 2,3,10, and 11.
	Land level to mountainous.
	Soil, sandy loam, and gravel; 1st and 3d rate.
	Timber, cedar and pinion pine.
	Brush, sage, rabbit, scrub oak, thimble-berry.
	Mountainous land, or land covered with heavy timber or covered with dense brush on 67.00 chs.
	Cloudy; rain. Solar observation impossible.
	Sept. 16, 1904.

This 17th day of Sept., 1904, I release J.C.Clark, as chainman; Samuel Clark, as flagman; and J.G.Houston, as axman, and employ Alma Riding, as chainman; George Lemmons as flagman; and John Johnson, as axman. No officer authorized to administer oaths, other than myself, being available, without great inconvenience, delay, and expense, I administer the required preliminary oaths.

## Subdivision of T. 37 S. R. 3 E.

Chainage.

itself.

Compassman for

William Lewman, D.S., Deceased.

Sept. 19: At 7h54m a.m., 1.m.t., I set off  $37^{\circ}53' E.$  on the lat. arc;  $1^{\circ}31\frac{1}{2}' N$  on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 3, 4, 33, and 34 on the S. bdy. of the T. heretofore described.

Thence I run

$N.0^{\circ}02' W.$  bet. secs. 33 and 34.

Var.  $15^{\circ}55' E.$

Over level of Sheep Creek Flat, through heavy cedar and pine and dense brush.

4.00

Leave timber, bears E. and W.

7.50

Edge of Sheep Creek wash, drains SE. Dry at this point.

12.50

E. side of wash 15 ft. deep.

13.00

Road, Cannonville to shearing corrals and East Fork bears NW & S.

31.00

Dry wash, 3ft. deep, 20 lks. wide, drains SE.

40.00

Set a sandstone 16x8x5 ins., 11 ins. in the ground for sec. cor., marked 4 on W. face; dig pits 18x18x12 ins., N. and S. of stone. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Pits impracticable.

An old fence lies 50 lks. W. of stone.

59.75

Dry wash, 4 ft. deep, 25 lks. wide, course SE.

80.00

Set a red sandstone 19x9x4 ins., 14 ins. in the ground for cor. of secs. 27, 28, 33, and 34, marked with 1 notch on the S. and 3 notches on E. edges; dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.; raise a mound of earth 4 ft. base, 2 ft. high around cor. to protect from sheep.

Land level but broken.

Soil, sandy and clay loam; 2d rate.

Timber, cedar and pinion pine on 4.00 chs.

Brush, sage, rabbit and grease wood.

Land covered with heavy underbrush on 80.00 chs.

## Subdivision of T. 37 S. R. 3 E.

Chains.	East on random line bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect the N. and S. line 390 $\frac{1}{2}$ lks. S. of the W.C. to cor. of secs. 26, 27, 34, and 35. Thence I run
	West, on a true line bet. secs. 27 and 34.
	Over mountainous land. Descend abruptly into gulch 250 ft deep, drains SE. then E.
18.00	W. side of canyon or gulch and ascend gradually through heavy cedar and pinion pine timber, bears NW. and SE.
30.00	Top of ridge of hill, bears NW. and SE., and descend along SE. slope of hill.
40.03	Set a sandstone 18x8x5 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar 18 ins. in diam. bears N. 1° 18' W. 42 lks. dist., marked $\frac{1}{4}$ S 27 B T A pinion pine 9 ins. in diam. bears S. 15° E. 38 lks. dist., marked $\frac{1}{4}$ S 34 B T
43.50	Bottom of hill and enter small valley, drains SE. Leave timber bears NW. and SE.
47.30	Dry wash, 5 ft. deep, 20 lks. wide, drains SE.
53.00	Foot of ridge, 70 ft. high. Ascend and enter heavy cedar and pinion pine timber, bears NW. and SE.
55.37	Top of hill, bears NW. and SE. Descend along head of small hollow, drains S.
63.50	Top of ridge, bears N. and S.; and descend abruptly 100 ft. to Sheep Creek Flat.
66.00	Foot of hill; dry wash, 5 ft. deep, 10 lks. wide, drains S. Leave timber and descend gradually.
71.50	Over level ground.
75.30	Dry wash, 4 ft. deep, 10 lks. wide, drains S.
80.06	The cor. of secs. 27, 28, 33, and 34. Land, hilly to mountainous. Soil, sandy and gravelly loam and ledges; 2d rate and worthless.

## Subdivision of T.37 S. R.3 W.

Chains.	Timber, cedar and pinion pine, dense on 38.50 chs. Brush, sage, rabbit, greasewood, deer, thimble-berry, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.06 chs.
	N.0°02'W bet. secs. 27 and 28.
	Through heavy brush.
20.00	Dry wash, 5 ft. deep, 30 lks. wide, drains SW.
24.50	Foot of hill and enter heavy timber; ascend gradually.
29.50	Ascend abruptly.
33.00	Top of hill, bears NW. and SE.
37.50.	Descend gradually along E. slope of hill, over small gullies, draining SE.
40.00	Set a limestone 16x10x10 ins., 11 ins. in the ground for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on W. face; from which A pinion pine 10 ins. in diam. bears S.76°E. 25 $\frac{1}{2}$ lks. dist., marked $\frac{1}{2}$ S 27 B T A cedar 12 ins. in diam. bears N.6°W. 76 lks. dist., marked $\frac{1}{2}$ S 28 B T
44.50	Bottom of hill; dry wash, 8 ft. deep, drains SE.
46.00	N. side of wash.
47.03	Dry wash, 10 ft. deep, drains SE.
49.50	N. side of wash, and S. edge of another, 5 ft. deep, 60 lks. wide, drains SE.
55.50	Bottom of hill and ascend about 200 ft.
78.00	Top of rock ridge, bears NW. and SE. for 4.00 chs. then N.
80.00	Set a sandstone 18x10x8 ins., 12 ins in the ground for cor. of secs. 21, 22, 27, and 28, marked with 2 notches on the S., and 3 notches on the E. edges; from which A pinion pine 8 ins. in diam. bears S.40°E. 29 lks. dist., marked T 37 S R 3 W S 27 B T A pinion pine 6 ins. in diam. bears S.35°W. 36 lks. dist., marked T 37 S R 3 W S 28 B T

## Subdivision of T. 37 S. R. 3 W.

Chains	<p>A pinion pine 10 ins. in diam. bears N.43°W. 67 lks. dist., marked T 37 S R 3 W S 21 B T</p> <p>A pinion pine 4 ins. in diam. bears N.40°E. 38½ lks. dist., marked T 37 S R 3 W S 22 B T</p> <p>Land rough and mountainous on 55.50 chs.</p> <p>Soil, sandy and gravelly loam; 2d and 4th rate..</p> <p>Timber, dense cedar and pinion pine on 55.50 chs.</p> <p>Brush, sage, rabbit, thimble-berry, service berry.</p> <p>Mountainous land or covered with heavy timber or dense brush on 80.00 chs.</p> <p>Cloudy. Solar observations impossible. Sept. 19, 1904.</p>
40.00	Sept. 20: Cloudy; solar observations impossible. East on a random line bet. secs. 22 and 27. Set temp. $\frac{1}{4}$ sec. cor.
79.95	Intersect the N. and S. line at the cor. of secs. 22, 23, 26, and 27. Thence I run
11.50	West, on a true line bet. secs. 22 and 27. Over level of Yellow Creek valley through heavy brush.
13.30	Enter heavy cedar and pinion pine, bears NW. and SE.
15.50	Irrigation ditch, drains SE. and E.
18.06	Edge of Yellow Creek wash, 12 ft. deep, drains SE. Dry. W. edge of wash.
33.50	Foot of high hill on S. of Yellow Creek valley. Ascend abruptly 300 ft., leave timber and brush.
38.37	Ascend abruptly over clay ledge, 20 ft. high, abutting from slope of hill.
39.20	W. edge of ledge, and ascend along slope to SE.
39.97½	Set a sandstone 24x8x6 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; as a mound of stone or pits are impracticable here, I raise a mound of stone on a little ridge 60 lks. W. of cor. 2 ft. base, $1\frac{1}{2}$ ft. high.
42.00	Bottom of gully on side of hill, drains SE., and ascend

## Subdivision of T. 37 S. R. 3 W.

Chains.	abruptly up side of gulch.
43.20	Enter heavy cedar and pinion pine bears NW. and SE.
49.00	Top of hill, bears NW. and SE. at this point.
52.50	Descend abruptly into gulch, 100 ft. deep, drains N.
58.00	W. edge of gulch and ascend gradually.
79.00	Top of main ridge of hill, bears NW. and SE., and descend.
79.95	The cor. of secs. 21, 22, 27, and 28. Land, rough and mountainous to level. Soil, gravelly loam on hill; 3d rate; clay and alkali on slope and ravine; worthless; sandy loam in valley 2d rate. Timber, cedar and pinion pine, dense on 58.80 chs. Brush, sage, rabbit, grease wood, deer, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 79.95 chs.

N. 0°02' W. bet. secs. 21 and 22.

Ascend through heavy timber and dense brush.

2.00	Top of hill and descend gradually.
8.50	S. edge of small bench, bears E. and W.
18.10	Dry wash, 12 ft. deep, 20 lks. wide, drains E.
32.00	Descend into gulch, 60 ft. deep, course E.
36.80	N. edge of gulch; top of small ridge, bears E. and W. from ridge on W.; and descend.
40.00	Set a sandstone 16x10x4 ins., 11 ins. in the ground for sec. cor., on E. slope of hill, marked $\frac{1}{4}$ on W. face; from which

A cedar 12 ins. in diam. bears S. 70° W. 97 lks. dist.,  
marked  $\frac{1}{4}$  S 21 B T

No other trees available to mark; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

48.00	Descend abruptly about 175 ft. into Yellow Creek Canyon.
53.50	Foot of hill, bears E. and W. Yellow Creek wash, course E. here, contains a small stream of water.
55.50	N. edge of wash.
60.00	Ascend abruptly out of canyon, and leave timber. Over.

## Subdivision of T. 37 S. R. 3 W.

Chains.	clay hill.
71.80	Top of ridge, 250 ft. high, bears E. and W. Descend abruptly 75 ft.
73.70	Bottom of gulch, drains SE., and ascend abruptly. Enter heavy cedar and pinion pine, bears E. and W.
77.24	Top of hill, 300 ft. high, and leave Yellow Creek Canyon.
80.00	Set a granitestone 15x7x5 ins., 10 ins. in the ground for cor. of secs. 15, 16, 21, and 22, marked with 3 notches on the S., and 3 notches on the E. edges; from which A pinion pine 10 ins. in diam. bears S. 12° 40' E. 37 lks. dist., marked T 37 S R 3 W S 22 B T A pinion pine 8 ins. indiam. bears S. 45° W. 70 lks. dist., marked T 37 S R 3 W S 21 B T A pinion pine 10 ins. in diam. bears N. 8° 10' W. 72 lks. dist., marked T 37 S R 3 W S 16 B T A pinion pine 12 ins. in diam. bears N. 3° 35' E. 61 lks. dist., marked T 37 S R 3 W S 15 B T Land, rough and mountainous. Soil, gravel and blue clay; 3d rate and worthless. Timber, cedar and pinion pine with a few long leaf or yellow pine in canyon. Brush, sage, scrub oak, deer, willows and thimble-berry. Mountainous land or land covered with heavy timber or dense underbrush on 80.00 chs.
40.00	East, on a random line bet. secs. 15 and 22. Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect the N. and S. line 6 lks. S. of the cor. of secs. 14, 15, 22, and 23. Thence I run S. 89° 57' W. on a true line bet. secs. 15 and 22. Through heavy cedar and pinion pine and dense brush.
12.00	Descend abruptly into gulch, 200 ft. deep.
24.00	Descend more gradual. Leave heavy timber, bears N 75° W. and S.

## Subdivision of T. 37 S. R. 3 W.

Chains.	
38.50	Bottom of gulch at elbow, drains S. Ascend along S. side of same gulch, drains S. 75° E.
39.97	Set a sandstone 18x10x5 ins., 12 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
43.00	Top of small ridge, bears N. and S. Ascend over small hollow on N. slope of ridge running E. and W. from hill on W.
62.70	Top of hill 150 ft. high, bears NW. and SE., and enter heavy cedar and pinion pine timber.
66.00	Descend abruptly 100 ft.
70.00	Bottom of gulch, drains S. 87° E. then SE. Ascend abruptly 250 ft. along ridge, bears N. 80° W. and S. 80° E. from main hill.
78.00	Top of main hill.
79.94:	The cor. of secs. 15, 16, 21, and 22. Land rough and mountainous. Soil, clay and gravel worthless. Timber, cedar and pinion pine, heavy on 41.24 chs. Brush, sage, grease-wood, deer, and thimble-berry. Mountainous land or heavy timber on 79.94 chs. Cloudy, rain. Solar observations impossible.
	Sept. 20, 1904.

Sept. 21: Cloudy. Solar observations impossible.

N. 0° 02' W. bet. secs. 15 and 16.

Through heavy timber and dense brush.

14.20 Descend into hollow, 45 ft. deep, drains E. then SE.  
17.30 N. edge of hollow.

22.00 Descend abruptly into gulch, 200 ft. deep, drains E. then SE.

33.60 Bottom of gulch, and dry wash, drains E. then SE. Leave timber, bears E. and W.

36.50 Ascend up blue clay hill, alkali, 150 ft. high.  
37.50 Ascend abruptly.

Subdivision of T. 37 S. R. 3 E.

Chains.	
40.00	Set a granitestone 24x14x12 ins., 18 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on W. face; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
44.75	Top of hill, bears NW. and SE. Descend.
48.75	Bottom of gully, 50 ft. deep, drains E. Ascend abruptly.
54.75	Top of ridge, bears NE. and SW., and descend abruptly into hollow, course SW.
60.00	Dry wash in bottom of main hollow, 4 ft. deep, 20 lks. wide, drains E. then SE.
60.50	Ascend gradually over small ridges and hollows, drain SE.
70.00	Foot of ridge and ascend abruptly 150 ft.
80.00	Top of elbow of ridge, bears NE. and SE. Set a granitestone 24x10x6 ins., 18 ins. in the ground for cor. of secs. 9, 10, 15, and 16, marked with 4 notches on the S. and 3 notches on the E. edges; from which A pinion pine 14 ins. in diam. bears S. $10^{\circ}$ E. 18 lks. dist., marked T 37 S R 3 W S 15 B T A cedar 16 ins. in diam. bears S. $80^{\circ}$ W. $40\frac{1}{2}$ lks. dist., marked T 37 S R 3 W S 16 B T A pinion pine 16 ins. in diam. bears N. $30^{\circ}$ W. 36 lks. dist., marked T 37 S R 3 W S 9 B T No other trees available to mark; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land, rough and mountainous. Soil, gravel and blue clay impregnated with alkali; 4th rate and worthless. Timber, cedar and pinion pine. Brush, sage, grease wood, deer, scrub oak and thimbleberry. Mountainous land or land heavily timbered or covered with dense brush on 80.00 chs.
40.00	N. $89^{\circ}57'$ E. on a random line bet. secs. 10 and 15. Set temp. in sec. cor.

## Subdivision of T. 37 S. R. 3 W.

Chains.	
79.90	Intersect the N. and S. line at the cor. of secs. 10, 11, 14, and 15.  Thence I run  S.89°57'W. on a true line bet. secs. 10 and 15. along S. slope of clay ridge, very little brush and very scattering timber.
2.00	Top of ridge, bears NE. and SW.; ascend along S. side of large hollow or gulch, over rough ground.
30.00	Ascend more abruptly along N. slope of high ridge, bears NW. and SE. Enter heavy cedar and pinion pine.
37.00	Ascend very abruptly.
38.00	Top of hill at junction of ridge; hill bears NW. and SE. Leave gulch.
39.95	Set a granitestone 16x8x6 ins., 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which  A pinion 10 ins. in diam. bears S.70°E. 24 lks. dist., marked $\frac{1}{4}$ S 15 B T  A pinion pine 8 ins. in diam. bears N.25°E. 54 lks. dist., marked $\frac{1}{4}$ S 10 B T
55.00	Descend 25 ft. into hollow, drains N.
58.50	W. edge of hollow.
61.80	Descend abruptly, 50 ft., into rocky gulch, drains NW.
64.70	Leave gulch and ascend gradually.
67.50	Descend abruptly into head of gulch, 150 ft. deep. Leave heavy timber.
76.00	Bottom of gulch, drains S. Ascend abruptly.
79.00	Top of ridge at crook of elbow.
79.90	The cor. of secs. 9, 10, 15, and 16.  Land rough and mountainous.  Soil, gravelly and clay; 4th rate and worthless. Timber, cedar and pinion pine, dense on 37.50 chs. Brush, sage, grease wood, thimble-berry, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 79.90 chs.

Subdivision of T. 37 S. R. 3 E.

Chains.	
	N. 0°02'W. bet. secs. 9 and 10.
.50	Descend abruptly about 75 ft.
2.30	Foot of ridge and ascend.
7.50	Ascend very abruptly to top of mountain.
14.70	Top of mountain 350 ft. high, bears N. and SE., and enter dense pinion pine and cedar.
31.50	Descend abruptly to large hollow, 150 ft. deep, drains E., heads W. 30.00 chs. dist.
37.00	Over small secondary ridges, bear E. and W.; leave heavy timber.
40.00	Set a sandstone 16x8x6 ins., 11 ins in the ground for 4 sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 8 ins. in diam. bears N. 25°E. 157 lks. dist., marked $\frac{1}{4}$ S10 B T
	No other trees available to mark; dig pits 18x18x12 ins. N. and S. of stone, $\frac{1}{2}$ ft. dist.; raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of the cor.
	Descend very abruptly over broken country.
42.20	Ascend very abruptly over detached hill, bears E. and W.
45.00	Top of point and enter heavy cedar and pinion pine.
66.00	Foot of hill and ascend abruptly from hollow, drains E.
70.75.	Top of hill, bears E. and W.
80.00	Set a sandstone 16x10x8 ins., 13 ins. in the ground for cor. of secs. 3, 4, 9, and 10, marked with 5 notches on the S. and 3 notches on the E. edges; from which A pinion pine 10 ins. in diam. bears S. 45 $\frac{1}{2}$ °W. 33 $\frac{1}{2}$ lks. dist., marked T 37 S R 3 W S 9 B T A pinion pine 12 ins. in diam. bears S 28°20'E. 43 $\frac{1}{2}$ lks. dist., marked T 37 S R 3 W S 10 B T A pinion pine 11 ins. in diam. bears N. 65°E. 47 lks. dist., marked T 37 S R 5 W S 3 B T A pinion pine 10 ins. in diam. bears N. 63°W. 25 lks. dist., marked T 37 S R 3 W S 4 B T
	Land, rough and mountainous.
	SOIL, sandy and gravelly loam and blue clay; 3d rate and

## Subdivision of T. 57 S. R. 5 E.

Chains.

worthless.

Timber, cedar and pinion pine, heavy on 57.30 chs.

Brush, sage, brigham tea, thimble-berry, and scrub oak.

Mountainous land or land covered with heavy timber or dense brush on 50.00 chs.

Cloudy and rain. Solar observations impossible.

Sept. 21, 1904.

Sept. 22: cloudy. Solar observations impossible.

N. $89^{\circ}57'E.$  on a random line bet. secs. 3 and 10.

40.00

Set temp.  $\frac{1}{2}$  sec. cor.

79.80

Intersect the N. and S. line 5 lks. S. of the cor. of secs.

2, 3, 10, and 11.

Thence I run

N. $89^{\circ}55'W.$  on a true line bet. secs. 3 and 10.

Ascend gradually over hill top through very heavy timber and dense brush.

17.80

Descend into small hollow, 10 ft. deep, drains SE.

19.80

W. edge of hollow.

30.70

Dry wash, 4 ft. deep, 10 lks. wide, drains SE.

39.90

Set a granite stone 15x8x6 ins., 10 ins. in the ground.

for a sec. cor., marked on N. face; from which

a pinion pine 10 ins. in diam. bears N. $80^{\circ}E.$ , 48 lks. dist., marked S. 3 B T.No other trees available to mark; dig pits, 18x18x12 ins., N. and W. of stone; 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high E. of cor.

67.00

over level ground.

70.80

The cor. of secs. 3, 4, 9, and 10.

Land nearly level.

Soil, gravelly loam; 3d rate.

Timber, very heavy cedar and pinion pine.

Brush, sage, brigham tea, deer, and thimble-berry.

Land covered with heavy timber, and dense under brush on 79.80 chs.

## Subdivision of T. 27 S. R. 3

Chains.	Sept. 22: At the cor. of secs. 3, 4, 9, and 10 I set off ✓ 0°16'N. on the decl. arc, and at 11h 53m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°37', which is the correct lat. very nearly. Thence I run N. 0°02'W. on a random line bet. secs. 3 and 4.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.70	Intersect the N. bdy. of the T. 29 lks. W. of the cor. of secs. 3, 4, 33, and 34, which is a sandstone 6x10x8 ins. above ground firmly set, marked and witnessed as described by the surveyor general.
	Thence I run S. 0°10'W. on a true line bet. secs. 3 and 4 Through heavy brush.
3.20	Enter heavy cedar and pinion pine, bears E. and W.
5.35	Dry wash, 7 ft. deep, 125 lks. wide, drains E.
15.00	Dry wash, 5 ft. deep, 20 lks. wide, drains E.
19, 26	Wire fence, bears E. and W. Enter Wm. Jolly's land.
21.20	Leave timber, bears E. and W., and entered cultivated land.
28.20	Private farm road, bears E. and W.
36.20	Irrigation ditch, runs NE.
39.70	Set a sandstone 18x10x8 ins., 12 ins. in the ground, 160 lks. N. of Jolly's S. fence, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which  A cedar 12 ins. in diam. bears S. 50°W. 135 lks. dist., marked $\frac{1}{4}$ S 4 B T  A pinion pine 12 ins. in diam bears S. 25°E. 170 lks. dist., marked $\frac{1}{4}$ S 3 B T
40.70	Wire fence, bears E. and W. Leave Wm. Jolly's field. Enter heavy cedar and pinion pine timber, bears E. and W.
41.30	Dry wash, 5 ft. deep, 40 lks. wide, drains E. then NE.
45.30	Woodroad, bears E. and W.
51.00	Dry wash, 4 ft. deep, 25 lks. wide, drains E. then NE.
57.20	Leave heavy timber, cedar and pinion pine, bears E. and W.

## Subdivision of T. 37 S., R. 3 W.

Chains.	
64.70	Ascend abruptly, 100 ft. leave Tropic valley, and enter heavy cedar and piñon timber, bears E. and W.
69.20	Top of hill, bears E. and W.
79.20	Road to J.H.Merril's Ranch, bears E. and W.
79.70	The cor. of secs. 3,4,9, and 10. Land, rough and mountainous to level, but broken. Soil, sandy and gravelly loam, with clay loam, 2d and 4th rate. Timber, cedar and piñon pine dense on 49.50 chs. Brush, sage, rabbit, scrub oak, deer, and thimble-berry. Mountainous land or land covered with heavy timber or dense brush on 79.70 chs. Cloudy. Solar observations impossible. Sept. 22, 1904.

Sept. 24: At 7h 22m a.m., I set off  $37^{\circ}33'N.$  on the Lat. arc;  $0^{\circ}24'S.$  on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the T. set by me and heretofore described.

Thence I run

E.  $0^{\circ}03'W.$  bet. secs. 32 and 33.

Var.  $15^{\circ}56'E.$

Descend gradually down NE. slope of hill, through heavy pine and cedar, and dense brush.

2.50 Descend abruptly.

9.00 Gulch, 30 ft. deep, drains NE.

12.00 N. edge of gulch and descend gradually.

19.50 Descend abruptly into Sheep Creek Flat.

23.50 Foot of hill, bears E. and SW.; leave heavy timber.

26.50 Enter scattering cedar and pine, bear E. and W.

31.55 Edge of Sheep Creek, 18 ft. deep, drains E., some seepage water; leave cedar and pine.

35.20 N. edge of Creek wash.

38.20 Road to sheep herd, bears E. and W.

40.00 Set a sandstone 18x8x6 ins., 12 ins. in the ground for

Subdivision of T. 37 S. R. 3 E.

Chains.	sec. cor., marked 1, on N. face; dig pits 18x18x12 ins., E. and S. of stone, 3 ft. dist., raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. A sand knoll bears NE. 10.00 chs. dist.
52.84	Dry wash, 15 ft. deep, 100 lks. wide, drains N. along N. side of knoll.
80.00	Set a sandstone, 16x6x6 ins., 11 ins. in the ground for cor. of secs. 28, 29, 32, and 33, marked with 1 notch on the S. and 4 notches on the E. edges; dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high around cor. to protect it from sheep. Land level, but broken, and mountainous. Soil, gravelly loam on mountain; 4th rate; sandy loam on flat; 2d rate. Timber, pinion pine and cedar, dense on 23.50 chs. Brush, sage, mountain rush, deer, grease wood, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
40.00	East, on a random line bet. secs. 36 and 33. Set temp. 1 sec. cor.
80.00	Intersect the N. and S. line at the cor. of secs. 27, 28, 33, and 34. Thence I run West, on a true line bet. secs. 28 and 33. Over level ground of Sheep Creek Flat, through heavy dwarf sage and grease-wood.
12.55	Dry wash, 2 ft. deep, 8 lks. wide, drains NW.
14.50	Dry wash, 3 ft. deep, 8 lks. wide, drains SW.
30.30	Dry wash, 2 ft. deep, 5 ft. wide, drains NW.
30.75	Dry wash, 2½ ft. deep, 6 lks. wide, drains SW.
33.45	Dry wash, 2 ft. deep, 6 lks. wide, drains SW.
38.00	Dry wash, 3 ft. deep, 7 lks. wide, drains NW.

## Subdivision of T. 37 S. R. 3 W.

Chains.	
39.45	Dry wash, 4 ft. deep, 6 lks. wide, drains SE.
40.00	Set a sandstone, 24x10x5 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18x18x12 ins. E. and W. of the stone 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of corner.
78.50	Dry wash, 4 ft. deep, 14 lks. wide, drains SE.
80.00	The cor. of secs. 28, 29, 32, and 33. Land level but broken. Soil, sandy loam; 2d. rate. No timber. Brush, dwarf sage and grease wood, 1 to 2 ft. high. Underbrush on 80.00 chs.
	Sept. 24: At this point I set off $0^{\circ}30'N.$ on the decl. arc and at 11h.52m a.m., 1.mt., observe the sun on the meridian, the resulting lat. is $37^{\circ}34'$ , which is the correct lat. approximately.

	N. $0^{\circ}03'W.$ bet. secs. 28 and 29. Through dense brush.
1.50	Dry wash, 4 ft. deep, 14 lks. wide, drains SE.
25.00	Dry wash, 6 ft. deep, 15 lks. wide, drains SE. into large wash.
33.50	Dry wash, 16 ft. deep, 50 lks. wide, drains SE. Shallows 10.00 chs. S.
40.00	Set a sandstone 16x10x4 ins., 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits 18x18x12 ins., N. and S. of stoner. 3 ft. dist., raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
47.00	Enter cedar and pinion pine timber, bears W. and SE. Foot of hill.
48.00	Ascend abruptly 75 ft.
55.00	Top of rocky ridge, bears E. and W. then NW.
57.47	Descend abruptly 75 ft. into rocky gorge, course SE., and heads 5.00 chs. W.
63.00	N. side of gorge or canyon and ascend to hill top.

## Subdivision of T.37 S. R.3 W.

Chains	
74.00	Ledge, 18 ft. high, bears NW. and SE.
77.00	Top of hill, 250 ft. high, bears SE. and N.15°W.
80.00	Set a sandstone 18x8x6 ins., 12 ins. in the ground for cor. of secs. 20, 21, 28, and 29, marked with 2 notches on the S. and 4 notches on the E. edges; from which A cedar 16 ins. in diam. bears N.40°W. 36 lks. dist., marked T 37 S R 3 W S 20 B T A cedar 24 ins. in diam. bears N.50°E. 75 lks. dist., marked T 37 S R 3 W S 21 B T A cedar 20 ins. in diam. bears S.79°E. 41 lks. dist., marked T 37 S R 3 W S 28 B T A pinion pine 8 ins. in diam. bears S.1°W. 37 lks. dist., marked T 37 S R 3 W S 29 B T Land, level to rough and mountainous. Soil, sandy loam and gravel; 2d and 4th rate. Timber, cedar and pinion pine, heavy on 33.00 chs. Brush, sage in valley, deer, mountain rush, and thimbleberry on mountain. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

	East, on a random line bet. secs. 21 and 28.
40.00	Set temp. 4 sec. cor.
79.96	Intersect the N. and S. line at the cor. of secs. 21, 22, 27, and 28.
	Thence I run
	West, on a true line bet. secs. 21 and 28.
	Descend through heavy timber and dense brush.
1.00	Descend more abruptly.
7.00	Foot of hill and descend gradually over small flat, bears NW. and SE.
14.50	Leave heavy timber bears N. and S.
18.00	Enter heavy cedar and pine, and ascend gradually.
31.00	Top of small ridge, bears N. and S.

Subdivision of T. 37 S., R. 5 W.

Chains.	
35.00	Small circular flat.
37.00	Leave heavy timber, bears NW. and SE.
39.98	Set a sandstone 14x10x5 ins., 10 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar 8 ins. in diam. bears S. 70° E. 102 lks. dist., marked $\frac{1}{4}$ S 28 B T. A pinion pine 8 ins. in diam. bears N. 5° W. 123 lks. dist., marked $\frac{1}{4}$ S 21 B T.
75.00	Top of hill, bears N. 15° W. and SE.; descend gradually.
79.96	The cor. of secs. 20, 21, 28, and 29. Land level to hilly. Soil, sandy and gravelly loam; 2d rate. Timber, heavy cedar and pinion pine on 33.50 chs. Brush, sage, rabbit, mountain rush, and thimble-berry. Land covered with heavy timber or dense brush on 79.96 chs.
	Cloudy. Solar observations impossible. Sept. 24, 1904.

Sept. 25: Cloudy and rain.

	N. 0° 03' W. bet. secs. 20 and 21.
	Through heavy timber and dense brush.
9.00	Top of main hill, fairly level. Dense timber.
28.50	Edge of hill, bears W. and N.; run along W. slope.
35.00	Top of point of hill.
38.00	Descend abruptly; hill bears S. and E. Leave timber.
40.00	Set a sandstone 18x8x5 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., on S. slope of Yellow Creek Canyon, marked $\frac{1}{4}$ on W. face; from which A cedar 8 ins. in diam. bears S. 30° W. 70 lks. dist., marked $\frac{1}{4}$ S 20 B T.
	No other trees available to mark; raise amount of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
45.00	Bottom of Canyon, drains E.
47.00	Enter dense Cottonwood and dense oak.
48.16	S. edge of Yellow Creek Wash, small stream of pure water.

## Subdivision of T. 37 S. R. 3 E.

Chains.	
48.60	12 lks.wide, 4 ins.deep, drains SE. N. edge of wash.
51.00	Leave cotton wood and scrub oak.
52.40	Foot of bare clay hill, and ascend abruptly 75 ft. Leave heavy brush.
56.50	Top of ridge, bears S. of E. and N. of W.
58.00	Descend gradually along a sort of basin.
62.00	Dry wash, drains SE. goes over cliffs about 5.00 chs. SE.
63.50	Leave basin and ascend up clay hill, 50 ft. high, bare, drains S.80°E.
66.50	Top of small ridge, 20 ft. high, bears SE. and NW. and descend gradually.
68.40	Dry wash, drains SE. Joins first wash.
69.50	Ascend abruptly.
70.00	Ascend more abruptly.
80.00	Set a granitestone 24x8x6 ins., 18 ins. in the ground; on S. slope of high blue clay hill, bare, marked with 3 notches on the S. and 4 notches on the E. edges, for cor. of secs. 16,17,20, and 21; dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high around cor. to keep it from being washed away.
	Land, mountainous.
	Soil, Sandy and gravelly loam; 2d and 3d rate with worthless blue clay highly impregnated with alkali on N. side of canyon.
	Timber, Cedar and pinion pine and a few long leaf or yellow pine also cottonwood in the canyon.
	Brush, heavy sage, deer, thimble-berry, and dwarf grease wood.
	Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
	Mast. on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect the N. and S. line 7 lks. N. of the cor. of

## Subdivision of T. 37 S. R. 3 W.

Chains.	secs. 15, 16, 21, and 22.  Thence I run N. 89° 57' W. on a true line bet. secs. 16 and 21. Through heavy cedar and pinion pine, an dense brush.
4.50	Descend abruptly 200 ft. from mountain, bears N. 20° W. and S. Leave pine and cedar and heavy brush.
32.00	Bottom of hill.
35.00	Bottom of gulch, drains S. 15° E. at this point. Ascend along N. slope of high blue clay ridge.
39.99	Set a sandstone 20x6x5 ins., 1.5 ins. in the ground, on hill side, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits 18x18x12 ins. E. and W. of stone. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
65.00	Top of ridge, bears N. 80° W. and S. 80° E.
76.00	Descend abruptly, over ridge.
79.98	The cor. of secs. 16, 17, 20, and 21. Land rough and mountainous. Soil, blue clay impregnated with alkali; worthless. Timber, pinion pine and cedar, dense on 4.50 chs. Brush, sage, thimble-berry, and deer; stunted or dwarf sage and grease-wood very dense on 75.50 chs. Mountainous land on 79.98 chs.
	N. 0° 03' W bet. secs. 16 and 17. Through dwarf sage and greasewood.
2.90	Top of hill or ridge, bears E. and W., and descend into hollow, 50 ft. deep, drains E.
5.00	Bottom of hollow and ascend abruptly.
8.70	Leave clay land and enter heavy cedar and pinion pine.
11.50	Top of mountain, 350 ft. high, and leave canyon. Mountain bears W. and NE. then SE. in a huge semi-circle 1 mile from horn to horn.
24.00	Descend abruptly into gulch, drains N. 5° E., then NE.

## Subdivision of T. 37 S. R. 3 W.

Chains.	
25.50	Leave cedar and pine, irregular course.
35.30	Bottom of gulch or hollow, drains NE.
39.40	Edge of dry wash, 40 ft. deep, drains NE.
40.00	Point falls nearly at bottom of wash, so set stone farther on. Set a peg marked T 37 S R 3 W on N. face; $\frac{1}{4}$ S 16 on E. face; and $\frac{1}{4}$ S 17 on W. face.
40.20	Bottom of wash.
42.00	N. edge of wash.
42.23	Set a granite stone 16x14x6 ins., 16 ins. in the ground for W.C. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on W. face; dig pits 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
43.30	Dry wash, 30 ft. deep, drains E.
45.50	N. edge of wash, and ascend abruptly.
53.00	Top of point of hill, bears E. and W. Enter heavy pine and cedar.
56.70	Over small gullies, draining E.
66.50	Bench, bears NE. and SW.
75.00	Descend into gulch 100 ft. deep, drains NE. then E.
78.50	Bottom of gulch.
80.00	Set a sandstone 24x6x4 ins., 18 ins. in the ground on W. edge of wash or gulch, for cor. of secs. 8, 9, 16, and 17, marked with 4 notches on the S. and 4 notches on the E. edges; from which:  A pinion pine 13 ins. in diam. bears S. $85^{\circ}$ W. 18 lks. dist., marked T 37 S R 3 W S 17 B T  A pinion pine 10 ins. in diam. bears S. $40^{\circ}$ E. 165 lks. dist., marked T 37 S R 3 W S 16 B T  A cedar 14 ins. in diam. bears N. $84^{\circ}$ E. 43 lks. dist., marked T 37 S R 3 W S 9 B T  A cedar 9 ins. in diam. bears N. $8^{\circ}$ W. 54 lks. dist., marked T 37 S R 3 W S 8 B T  Land rough and mountainous.

## Subdivision of T. 37 S. R. 3 W.

Chains.	Soil, gravel and blue clay; 4th rate and worthless. Timber, pinion pine and cedar. Brush, Sage, thimble-berry deer and greasewood. Mountainous land or land covered with heavy timber on 80.00 chs.
	S.89°57'E. on a random line bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
79.95	Intersect the N. and S. line at the cor. of secs. 9, 10, 15, and 16. Thence I run
	N.89°57'W. on a true line bet. secs. 9 and 16. Descend abruptly from elbow of ridge, through dwarf sage and greasewood.
15.00	Bottom of hill and ascend abruptly 100 ft.
17.50	Top of ridge, bears N. and S. and descend.
22.00	Bottom of ridge or hill and enter heavy pine and cedar and dense brush.
25.00	Top of ridge, bears N. and S. and descend abruptly into gulch 80 ft. deep, drains SE.
27.00	Descend more gradual.
32.50	Dry wash, 12 ft. deep, 50 lks. wide, drains SE. and ascend abruptly over point of bend.
34.60	Dry wash, 4 ft. deep, 25 lks. wide, drains NE. at this point.
39.97	Set a sandstone 16x10x5 ins., 11 ins. in the ground for sec. cor., marked $\frac{1}{2}$ on N. face; from which A pinion pine 12 ins. in diam. bears N.25°W. 50 lks. dist., marked $\frac{1}{2}$ S 9 B T A pinion pine 10 ins. in diam. bears S.20°W. 41 lks. dist., marked $\frac{1}{2}$ S 16 B T
42.50	Ascend abruptly about 80 ft. along N. side of gulch and S. slope of ridge that bears N.80°E. and S.80°W.
49.50	Top of ridge and ascend more gradual.
52.50	Top of ridge, bears SE. and NW., Descend along S.slope

## Subdivision of T.37 S. R.3 W.

Chains.	
55.00	of ridge.
57.00	Bottom of hollow, drains SE., and ascend along S. slope of ridge, bears NE. and SW.
69.00	Top of ridge cross on to the N. slope and descend.
73.00	Bottom of hill and ascend abruptly.
78.00	Top of hill, bears SE. and S.65°W. at this point. Descend along N. slope.
79.70	Top of ridge, bears N. and S. from main hill on S. Descend abruptly.
79.95	Bottom of gulch, drains N. then NE.
	The cor. of secs. 8,9, 16, and 17.
	Land rough and mountainous.
	Soil, gravelly loam and clay; 4th rate and worthless.
	Timber, pinion pine and cedar, dense on 57.95 chs.
	Brush, sage, deer, thimble-berry and greasewood.
	Mountainous land or land covered with heavy timber or dense brush on 79.95 chs.
	Cloudy and rain. Solar observations impossible.

Sept. 25, 1904.

Sept. 26: Cloudy. Solar observations impossible.

N.0°03'W. bet. secs. 8 and 9.

9.00	Ascend abruptly out of gulch.
11.50	Top of sand hill, bears E. and W.
14.50	Bottom of hill and leave timber, bears E. and W.
20.00	Ascend over small sand knoll.
23.00	Top of knoll and descend. Scattering cedar.
25.00	Top of small point.
26.00	Over level ground and no trees.
33.00	Enter very dense oak and giant yellow pine.
40.00	Set a sandstone 22x10x8 ins., 16 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on W. face; from which A yellow pine 40 ins. in diam. bears S.10°W. 103 lks. dist., marked $\frac{1}{4}$ S 8 B T A yellow pine 40 ins. in diam. bears N.40°E. 160

## Subdivision of T. 37 S. R. 3 E.

Chains.

lks. dist., marked T 37 S 9 B T

John Merrill's house and corral are E. of here 20.00 chs.

41.00 Brush fence of John Merrill, bears SE. and NW.

51.50 Leave dense oak.

54.00 Enter cedar and pinion pine, and leave yellow pine; and ascend gradually.

56.00 Brush fence of J. Merrill, bears E. and W.

60.00 Top of hill, bears E. and W. and descend gradually.

65.00 Bottom of hollow, 50 ft. deep, drains E., and ascend.

67.50 Top of hill bears E. and W.

71.00 Descend abruptly.

73.00 Bottom of hollow, 50 ft. deep, drains W. and ascend.

76.50 Top of point of hill, bears E. and NE. and N.85°E.; and descend.

80.00 On steep side hill.

76.50 Set a sandstone 20x7x5 ins., 15 ins. in the ground for cor. of secs. 4, 5, 8, and 9, marked with 5 notches on the S. and 4 notches on the E. edges; from which

A pinion pine 9 ins. in diam. bears S.89°E. 26 lks.  
dist., marked T 37 S R 3 W S 9 B TA pinion pine 10 ins. in diam. bears S.87°W. 30 lks.  
dist., marked T 37 S R 3 W S 8 B TA pinion pine 8 ins. in diam. bears N.85°W. 46 lks.  
dist., marked T 37 S R 3 W S 5 B TA pinion pine 5 ins. in diam. bears N.4°E. 37 lks.  
dist., marked T 37 S R 3 W S 4 B T

Land rough and mountainous to level and rolling.

Soil, sandy loam in the valley of Merrill's ranch; 1st rate; gravelly loam and sand on hills; 3d rate.

Timber, pinion pine yellow pine and cedar.

Brush, sage, rabbit, service-berry, scrub oak, grease-wood and thimble-berry.

Mountainous land or land covered with heavy timber or dense brush on 70.50 chs.

## Subdivision of T. 37 S. R. 3 W.

Chains.	
40.00	S.89°57'E. on a random line bet. secs. 4 and 9. Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect the N. and S. line at the cor. of secs. 3,4, 9, and 10. Thence I run N.89°57'W. on a true line bet. secs. 4 and 9. Var. 15°49'E.
	Through heavy timber and dense brush.
5.75	Road to John H. Merrill's ranch, bears easterly and SW.
21.30	Descend into hollow, 35 ft. deep, drains SE.
23.00	Bottom of hollow and ascend.
25.00	W. side of hollow and ascend gradually.
39.97	Set a sandstone 16x12x4 ins., 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinion pine 12 ins. in diam. bears S.70°W. 40 lks. dist., marked $\frac{1}{4}$ S 9 B T A pinion 12 ins. in diam. bears N. 78 lks. dist., marked $\frac{1}{4}$ S 4 B T
73.50	Descend abruptly from hill, bears NE. and SW. at this point.
79.94	The cor. of secs. 4,5,8, and 9. Land rolling to hilly. Soil, gravelly loam; 3d rate. Timber, cedar and pinion pine. Brush, sage, thimble-berry, deer, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 79.94 chs.
40.00	N.0°03'W. on a random line bet. secs. 4 and 5. Set temp. $\frac{1}{4}$ sec. cor. As ascent up mountain at this point is very difficult and since the W.C. to cor. of secs. 4,5,32, and 33, on the N. bdy. of the T., set by Deputy Lewis, lies 17.64 chs. E. of the true cor. point, I offset E. 17.64 chs. and continue N.0°03'W.on random line,

## Subdivision of T. 37 S. R. 3 E.

Chains.

- 79.62 Intersect the N. bdy. of the T. at the W.C. of secs. 4, 5, 32, and 33, which is a sandstone 9x6x8 ins. above ground, marked and witnessed as described by the surveyor general.
- Thence I run  
S.0°03'E. on an offset line bet. secs. 4 and 5.  
Over some very rough ground.
- 39.62 Offset W. 17.64 chs. to point of temp.  $\frac{1}{4}$  sec. cor.  
Set a sandstone 16x8x5 ins., 1 $\frac{1}{2}$  ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; raise amount of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high W. of cor. Pits impracticable.  
Through dense brush.
- 40.00 Dry wash, 3 ft. deep, 12 lks. wide, Drains E.
- 50.62 Bryce Creek, 31 lks. wide., 3 ins. deep, drains E.
- 51.42 S. edge of Bryce Creek wash.
- 57.00 Dry wash, 12 lks. wide, 4 ft. deep, drains E.
- 78.12 Foot of hill, ascend abruptly, enter heavy pinion pine and cedar, bears NE. and W. Leave dense brush.
- 79.62 The cor. of secs. 4, 5, 8, and 9.  
Land, level to mountainous.  
Soil, gravelly loam and rocky; 4th rate and worthless.  
Timber, cedar and pinion pine.  
Brush, scrub oak, sage, deer and rabbit.  
Mountainous land or land covered with dense brush on 40.00 chs.
- Cloudy and rain. Solar observations impossible.

Sept. 26, 1904.

Sept. 28: At 7h51m a.m., l.m.t., I set off 1°58 $\frac{1}{2}$ 'S. on the decl. arc; 37°33'N. on the lat. arc; and determine a true meridian with the solar on the S. bdy. of the T. at the cor. of secs. 5, 6, 31, and 32, which was set by me and heretofore described.

N.0°03'W. bet. secs. 31 and 32.

## Subdivision of T. 37 S. R. 3 W.

Chains.	
	Descend gradually along E. slope of hill, bears N. and S. Through heavy cedar and pine timber and dense brush.
7.50	Top of hill, bears, at this point, E. and W. Descend abruptly.
14.37	Descend very abruptly to Sheep Creek Canyon, drains E.
22.75	Bottom of canyon, and leave timber.
23.40	Sheep Creek wash, 15 ft. deep, drains E.
26.11	N. side of wash.
26.50	Enter cedars, clumped.
33.00	Leave cedars and enter thick scrub oak.
37.47	Road to sheepherd, bears E. and W.
39.00	Enter heavy cedar and pinion pine timber, bears E. and W.
39.50	Foot of hill, bears E. and W.; and ascend.
40.00	Set a sandstone 18x10x8 ins., 12 ins. in the ground for sec. cor., marked $\frac{1}{2}$ on W. face; from which
	A pinion pine 10 ins. in diam. bears S. $65^{\circ}$ W. 29 lks. dist., marked $\frac{1}{2}$ S 31 B T
	A cedar 12 ins. in diam. bears N. $45\frac{1}{2}^{\circ}$ E. 14 lks. dist., marked $\frac{1}{2}$ S 32 B T
41.00	Ascend abruptly.
45.50	Top of hill and descend along ridges bear E. and W.
52.00	Bottom of hill.
54.00	Ascend.
57.50	Top of ridge, bears NW. and SE.
58.50	Dry wash, 3 ft. deep 40 lks. wide, drains SE.
59.00	Ascend.
62.50	Top of ridge bears NW. and SE.
68.50	Descend abruptly.
71.00	Foot of ridge and enter small valley, drains SE.
75.00	Foot of ridge and ascend.
76.00	Top of ridge, bears NW. and SE.
77.00	Foot of ridge and leave timber, bears E. and W., and enter a small valley, drains SE.
80.00	Set a sandstone 24x10x3 ins., 18 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on the

Subdivision of T. 37 S. R. 3 W.

Chains.

S. and 5 notches on the E. edges; dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land rough and mountainous to level.

Soil, sand and gravelly loam and rocky; 2d and 4th rate.

Timber, cedar and pinion pine, dense on 67.25 chs.

Brush, oak, deer, sage and thimble-berry.

Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

East, on a random line bet. secs. 29, and 32.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.98 Intersect the N. and S. line 3 lks. N. of the cor. of secs. 28, 29, 32, and 33.

Thence 1 run

$N.89^{\circ}59'W.$  on a true line bet. secs. 29 and 32.

Over level of a branch of Sheep Creek Flat, through heavy sage and grease-wood.

39.99 Set a sandstone 20x9x5 ins., 15 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face; dig pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

63.40 Dry wash, 3 ft. deep, 10 lks. wide, drains SE.

67.00 Ascend up small sand ridge.

71.75 Top of ridge, bears N. and S. Few cedars. Descend.

73.00 Foot of ridge and enter small valley, drains SE.

79.60 Dry wash, 3 ft. deep, 10 lks. wide, drains SE.

79.98 The cor. of secs. 29, 30, 31, and 32.

Land, level.

Soil, sandy loam, 2d rate.

Timber, cedar on ridge.

Brush, sage, rabbit, greasewood.

Dense brush on 79.98 chs.

West, on a random line bet. secs. 30 and 31

## Subdivision of T. 37 S. R. 3 W.

Chains.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.35	Intersect the Emery Valley Guide Mer. 2 lks. S. of cor. of secs. 25, 30, 31, and 36, set by me and heretofore described. Thence I run
	S. 89° 59' E. on a true line bet. secs. 30 and 31. Over mountainous land; descend abruptly through heavy pinion pine and cedar and dense brush.
2.35	Bottom of gulch, drains SE. and ascend.
8.35	East side and ascend over heavily wooded hill top.
38.35	Set a sandstone 16x10x5 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinion pine 12 ins. in diam. bears S. 70° E. 51 lks. dist., marked $\frac{1}{4}$ S 31 BT A cedar 14 ins. in diam. bears N. 30° E. 26 lks., dist., marked $\frac{1}{4}$ S 30 BT
52.35	Top of ridge, bears N. and S. Descend along S. side of ridge at head of hollow.
57.85	Top of ridge, bears NW. and SE. Descend along N. side of hill.
74.85	Leave heavy timber, bears NW. and SE. Enter small valley.
78.35	The cor. of secs. 29, 30, 31, and 32. Land rough and mountainous. Soil, gravel loam; 4th rate. Timber, very heavy cedar and pinion pine. Sage, thimble-berry, deer, and scrub oak brush. Mountainous land or land covered with heavy timber or dense brush on 78.35 chs.
	)
	N. 0° 03' W. bet. secs. 29 and 30.
1.30	Dry wash, 3 ft. deep, 10 lks. wide, course SE.
4.85	Dry wash, 4 ft. deep, 20 lks. wide, at foot of a knoll, drains E.
5.35	Ascend up a blue clay knoll.
12.30	Top of knoll and descend; enter cedar and pinion pine,

## Subdivision of T. 37 S. R. 3 W.

Chains.	bears NW. and SE. Heavy brush.
17.50	Bottom and leave timber, enter small valley, drains SE.
30.20	Foot of hill and ascend.
33.00	Top of hill, bears E. and W. Enter heavy cedar and pine, bears E. and W.
40.00	Set a sandstone 18x8x5 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 12 ins. in diam. bears W. 8 lks. dist., marked $\frac{1}{4}$ S 30 B T A pinion pine 8 ins. in diam. bears E. 40 lks. dist., marked $\frac{1}{4}$ S 29 B T
41.00	Descend abruptly.
42.50	Foot of hill, and small valley running into Sheep Creek Flat, drains SE.
50.00	Ascend abruptly up a ridge.
52.00	Top of ridge, bears NW. and SE.
53.80	Descend into cove, drains SE.
56.00	Bottom and leave pine and cedar.
62.00	Foot of hill on N. side, and ascend abruptly. Enter cedar and pinion pine timber.
64.00	Ascend more gradually along SW. slope of hill.
80.00	Set a sandstone 20x7x5 ins., 15 ins. in the ground for cor. of secs. 19, 20, 29, and 30, marked with 2 notches on the S. and 5 notches on the E. edges; from which A pinion pine 6 ins. in diam. bears N. 70°W. 17 lks. dist., marked T 37 S R 3 W S 19 B T A pinion pine 10 ins. in diam. bears N. 50°E. 73 lks. dist., marked T 37 S R 3 W S 20 B T A cedar 16 ins. in diam. bears S. 55°W. 39 lks. dist., marked T 37 S R 3 W S 30 BT A pinion pine 14 ins. in diam. bears S. 50°E. 76 lks. dist., marked T 37 S R 3 W S 29 B T
	Land mountainous.
	Soil, sand and gravelly loam; 2d and 4th rate.
	Timber, cedar and pinion pine on 46.20 chs.

## Subdivision of T. 27 N. 23 E.

Chains:

Brush, sage, thimble-berry, deer and scrub oak.  
Mountainous land or land covered with heavy timber or dense brush on 74.65 chs.

Cloudy; rain. Solar observations impossible.

Sept. 28, 1964

Sept. 29: Cloudy, Solar observations impossible.

S. 89°59' W. on a random line bet. secs. 26 and 29.

40.00 Set temp. 4 sec. cor.

80.03 Intersect the N. and S. line at the cor. of secs. 20, 21, 28, and 29.

Thence I run

N. 89°59' W. on a true line bet. secs. 20 and 29.

Descend through dense cedar and pinion pine and dense brush.

.50 Descend abruptly to valley.

10.00 Descend more gradually and leave timber.

15.00 Branch of Sheep Creek Flat.

40.01 Set a sandstone 14x10x6 ins., 10 ins. in the ground for sec. cor., marked 1 on N. face; dig pits 18x18x12 ins., E. and W. of the stone 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high N. of cor.

42.00 Dry wash, 6 ft. deep, 30 lks. wide, drains SE.

65.00 Foot of hill, bears N. and S. Ascend abruptly and enter heavy timber, bears N. and S.

71.20 Top of hill and ascend gradually.

75.00 Top of ridge of hill, bears N. and S.

80.03 The cor. of secs. 19, 20, 29, and 30.

Land level to mountainous.

Soil, sandy and gravelly loam; 2d and 4th rate.

Timber, dense cedar and pinion pine on 24.93 chs.

Brush, sage, rabbit, deer, greasewood, and scrub oak.

Mountainous land or land covered with heavy timber or dense brush on 80.03 chs.

N. 89°59' W. on a random line bet. secs. 18 and 29.

Subdivision of T.37 S. R.3 W.

Chains.

40.00 Set temp.  $\frac{1}{2}$  sec. cor.

78.33 Intersect the Emery Valley Guide Meridian at the cor. of secs. 19, 24, 25, and 30, set by me and heretofore described.

Thence I run

S.89°59' E. on a true line bet. secs. 19 and 30.  
Descend gradually through heavy timber and dense brush, over top of hill, bears E. and W.

38.33 Set a sandstone 16x10x4 ins., 11 ins. in the ground for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{4}$  on N. face; from which

A pinion pine 12 ins. in diam.. bears S. 19 lks.

dist., marked  $\frac{1}{4}$  S 30 B T

A pinion pine 12 ins. in diam. bears N. 40 lks.

dist., marked  $\frac{1}{4}$  S 19 B T

52.33 Descend abruptly from hill, bears NW. and SE. at this point.

55.33 Foot of hill and enter small flat, drains SE. Leave heavy timber, bears E. and S.

65.30 Dry wash, 3 ft. deep, 5 ft. wide, drains SE.

73.33 Ascend abruptly and enter heavy cedar and pinion pine.

75.53 Ascend gradually.

78.33 The cor. of secs. 19, 20, 29, and 30.

Land mountainous to level.

Soil, sandy and gravelly loam, 2d and 3d rate.

Timber, cedar and pinion pine, dense on 60.33 chs.

Brush, sage, rabbit, deer, scrub oak, thimbleberry, and greasewood.

Mountainous land or land covered with heavy timber or dense brush on 78.33 chs.

N.0°03'W. bet. secs. 19 and 20.

Ascend through heavy timber, cedar and pinion pine, and dense brush.

13.00 Top of hill and descend abruptly.

19.00 Foot of hill and leave timber, bears SE. & NW.

## Subdivision of T. 37 S., R. 3 W.

Chains.	
20.50	Ascend abruptly 200 ft.
25.00	Ascend very abruptly.
29.00	Top of bluffs of mountain, 300 ft. higher, bear easterly and westerly. Enter heavy pinion pine and cedar, bears E. and W.
34.50	Descend abruptly into Yellow Creek Canyon. Leave heavy pinion pine and cedar.
40.00	N.slope of hill, Set a sandstone 24x10x10 ins., 18 ins.in the ground for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}$ on W.face; from which A pinion pine 10 ins.in diam.bears S.45° W.70 $\frac{1}{2}$ lks. dist., marked $\frac{1}{4}$ S 19 B T No other trees available to mark; raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high W.of the cor.Pits impracticable.
43.00	Bottom of hill bears E. and NW. and run along the E. slope of hill where it turns N.
48.50	Foot of hill bears NW. and E. Bottom of canyon, drains E. Leave scattering timber and enter heavy oak.
54.00	Yellow Creek, course E., small stream of pure water.
55.35	N.side of creek and enter giant yellow pine.
62.00	S.end of small sand ridge and ascend, bears E. and W.
66.50	Foot of ledges 500 ft.high and hill 1000 ft.high. Impossible to run the line farther because the mountain is gutted with deep gulches, draining E.then SE., which are impassable. Therefore at this point I set a sandstone 20x6x5 ins., 15 ins.in the ground at foot of ledge, for W.C.to cor.of secs.17,18,19, and 20, marked W C on NE.face, with 5 notches on the S. and 5 notches on the E.edges; from which A yellow pine 24 ins.in diam.bears S.30° E. 210 lks.dist., marked W C T 37 S R 3 W S 20 B T A yellow pine 18 ins.in diam.bears S.30° W. 87 lks. dist., marked W C T 37 S R 3 W S 19 B T No other trees available; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

## Subdivision of T. 37 S., R. 3 W.

Chains. 80.00	Cor. to secs. 17, 18, 19, and 20, falls on impassable mountain and is not set.
	Land mountainous.
	Soil gravelly loam; 4th rate.
	Timber cedar and pinion pine and some yellow pine.
	Brush, sage, deer, scrub oak, and thimble-berry.
	Mountainous land, dense timber, or brush on 80.00 chs.
	Cloudy rain. Solar observations impossible.
	Sept. 30, 1904.
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	Sept. 31, 1904: Cloudy, solar observations impossible.
	From the witness cor. to secs. 17, 18, 19, and 20, I run
	N. 89° 59' W. on a random line bet. secs. 18 and 19,
	On offset line, through sec. 19,
R 28.36	Offset N. 0° 03' W. 13. 50 chs. to subdivision line bet. secs.
	18 and 19,
	Thence N. 89° 59' W. on the random line,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.36	Intersect the Emery Valley Guide Meridian at the cor. of secs. 13, 18, 19, and 24, set by me and heretofore de- scribed. Thence I run
	S. 89° 59' E. on a true line bet. secs. 18 and 19,
	Descend gradually along sloping hill top, through yellow pine.
22.00	Descend abruptly into Yellow Creek Canyon, drains SE.
28.50	Bottom of canyon. Heavy oak and bull-berry brush and medium heavy yellow pine.
38.36	Set a sandstone 18x6x5 ins., 12 ins. in the ground on edge of Yellow Creek wash, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{2}$ on N. face; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
38.45	Yellow Creek wash, drains SE. Small stream of water 15 lks. wide, 4 ins. deep.
40.00	SE. side of wash!
50.00	Set a sandstone 18x10x4 ins., 12 ins. in the ground for offset point, marked with a cross (X) on top; then run on offset line S. 0° 03' E. 13. 50 chs.; thence S. 89° 59' E. 28.36 chs.
74.00	Base of sand ridge, and ascend.

## Subdivision of T.37 S., R. 3 W.

Chains.	
77.00	Top of ridge, bears N. and S.
78.36	The witness cor.to cor.of secs.17,18,19, and 20. Land mountainous. Soil gravelly and rocky; 4th rate and worthless. Timber yellow and pinon pine and cedar. Brush, scrub oak, deer, bull-berry, and sage. Mountainous land or land covered with heavy timber or dense brush on 78.36 chs.

Oct. 1:

The cor.of secs.17,18, 19, and 20 not being set, on account of impassable cliffs, I proceed to the cor.of secs.16,17, 20 and 21, and

At 9 h. 50m.a.m.l.m.t.set off  $37^{\circ}35\frac{1}{2}'N.$  on the lat. arc;  $3^{\circ}11' S.$  on the decl.arc; and determine a true meridian with the solar.

Thence I run

$N.39^{\circ}59'W.$  on a true line betsecs.17 and 20.

Descend gradually.

3.50	Foot of ridge; ascend.
8.00	Top of ridge bears N. and SE.; descend along S.slope of mountain.
40.00	On abrupt slope of mountain, Set a sandstone 20x7x6 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins. E. and W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor. On account of impassable gulches and ridges, I discontinue line at this point. Land rough and mountainous. Soil, blue clay and gravel; worthless. Timber, very little cedar and pinon pine. Brush, sage and geasewood. Mountainous land or land covered with dense brush on

## Subdivision of T. 37 S., R. 3 W.

chains. 40.00 chs.

As the cor.of secs.7,8,17, and 18 could not be set on account of impassable gulches and ridges, I proceed to the cor.of secs.8,9,16, and 17, and run

N.89° 59'W.on true line betsecs.8 and 17,

Ascend abruptly through heavy cedar and pinon pine.

2.37 Top of ridge bears N.and S.. from hill on N., and descend along S.slope of hill.

12.77 Top of ridge bears N.70°E. and S.70°W.; and descend.

18.22 Top of ridge bears N.and S.; and descend over gully draining S.

23.00 Across bend of dry wash, drains irregularly E.

27.27 Top of ridge bears N. and S. on W:side of wash; descend.

35.07 Top of point of ridge.bears N. and S., in bend of wash.  
Descend into wash, drains N.80°E.

40.00 Set a sandstone on W.edge of wash 24x6x6 ins., 18 ins.  
. in the ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N.face; from which

A pinon pine 22 ins.in diam.bears S.30°W. 68 lks.

dist., marked  $\frac{1}{4}$  S 17 B T

A pinon pine 17 ins.in diam.bears N.5°-W. 23 $\frac{1}{2}$  lks.

dist., marked  $\frac{1}{4}$  S 8 B T

On account of impassable gulches and ridges, I discontinue line at this point.

Land rough and mountainous.

Soil gravelly and rocky; worthless.

Timber cedar and pinon pine with some yellow pine.

Brush, sage, deer, scrub oak, thimble-berry and service berry.

Mountainous land or land covered with heavy timber or dense brush on 40.00 chs.

As the cor.of secs.5,6,7, and 8 cannot be set on account

## Subdivision of T.37 S., R. 3 W.

Chains.	of impassable gulches and ridges, I proceed to the cor. of secs. 4, 5, 8, and 9 and run
	N. $89^{\circ} 59'W$ .on a true line bet. secs. 5 and 8,
	Descend abruptly through heavy cedar and pinion pine and dense brush.
.60	Dry wash, drains N.; leave heavy timber.
6.75	Foot of hill end ascend abruptly. Enter heavy timber, bears N. and S.
10.50	Top of ridge bears N. & S.
	Descend along S.slope of hill,
12.58	Descend abruptly.
22.18	W.side of gulch, drains SE.
	Ascend gradually, and enter yellow pine.
39.50	Enter very heavy yellow pine, bears SE. and NW.
49.00	Set a sandstone 18x7x5 ins., 12 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which
	A yellow pine 30 ins. in diam.bears N. $37\frac{1}{2}$ lks.dist. marked $\frac{1}{4}$ S 5 B T
	A yellow pine 25 ins. in diam.bears S. $8^{\circ} E.$ 81 lks. dist., marked $\frac{1}{4}$ S 8 B T
	Land mountainous.
	Soil gravel; 4th rate.
	Timber cedar and pinion and yellow pine.
	Brush, deer, scrub oak, sage, and thimble-berry.
	Mountainous land or land covered with heavy timber or dense brush on 40.00 ehs.
	Cloudy and rain.
	October 1, 1904.
	On account of impassable gulches and ridges, I discontinue line at this point.

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General Description of Tp. 37 S. R. 3 m.

The township contains nearly every kind of land, from lowlands to mountains; and the soil ranges from rich brown and clay loams to gravel and alkali. The soil in Tropic valley and along the Paria River is a rich brown sandy loam capable of producing luxuriant crops, but, in great part, has considerable alkali that must be washed out. The land along Yellow Creek and Sheep Creek is mostly a second rate clay and sandy loam very little of which has been utilized on account of the scarcity of water. Yellow Creek Flat extends only as far as the west bdy. of sec. 26, while Sheep Creek Flat extends nearly the entire width of the township. In secs. 8 and 9 there is a little valley of good gray and brown loam, fairly well watered by a spring rising in sec. 8; this land is held by John Merrill. Spring not seen from line.

While a good growth of grass exists in the western part of the Tp. it can only be used for free grazing.

Dense growths of pinon pine and cedar timber cover the entire township except for the flats, Tropic valley and the valley of the Paria River; the cedars in some places being of enormous size. In Bryce Creek Canon, Yellow Creek Canon and along the gulches from the high mountains in the E.W. part of the township, and also on White Man's Bench, yellow pine are fairly abundant but nowhere is the growth sufficient to justify a sawmill.

No good stone or valuable minerals show in this township; the rock formation is principally sandstone covering a kind of blue clay or carboniferous shale. Beds of shells, mostly oyster, are found in considerable numbers to a thickness of several feet in many parts of the township.

The township is poorly watered; most of the water being impregnated with alkali, this being especially so in sec. 26, where most of the land has been ruined by it. Paria River supplies the water for irrigation along its course. Tropic and the fields adjacent are supplied by water from

## General Description of Tp. 37 S. R. 3 W.

a reservoir on the East Fork of the Sevier River. Only a narrow strip along the N. and E. bdys. and small parts of secs. 1, 2, 3, 4, 8, 9, 12, 24, 25, 26, and 36 are under cultivation.

The town of Cannonville, a few houses of which are in sec. 24, has a population of under 300, one church, one school house, and about 35 houses.

Tropic, part of which lies in secs. 2 and 3, contains two stores, two black smith shops, a church which is also the school house, two hotels, about 100 houses and a population of less than 500.

The little town of Georgetown, lying partly in sec. 36, has a population of less than 20, five houses, and a blacksmith shop.

R.C. Pinney, Wm. Farmer, George W. Johnson and Seth. Johnson own the land within the town; the first and last mentioned holding all that part E. of the Tp. line.

R.C. Pinney holds a small fenced claim in the middle of sec. 36, and claims a large strip N. and S. of it as unfenced pasture.

Wm. Farmer holds J. Asay's claim, running from near the sec. cor. bet. secs. 26 and 35, along the N. side of Yellow Creek wash. It is improved and has a house and corral, with fence.

John H. Merrill's claim runs E. and W. from the sec. cor. bet. secs. 8 and 9, the improved and fenced portion lying in sec. 9, with house corral and orchard.

J.H. Hatch holds land along Paria River about opposite the sec. cor. bet. secs. 1 and 6. All is improved, with fence, house, barn, and orchard, the latter three being about 30 ch. N. of a point 20. chs. W. of the cor. to secs. 1, 6, 7 and 12.

W.H. Halliday lives within the limits of Tropic having an improved lot on the subdivision line bet. secs. 2 and 3. running from the N. bay. S. about 20.00 chs. R. Campbell occupies the N. portion of it.

## General Description of Tp. 37 S. R. 22

W. Meechan has a claim along the line bet secs. 1 and 12 improved, with house corral and orchard and all fenced.

*John H. Clark*

Compassman for

William Lewman, D.S., deceased.

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## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by

(deceased)

William Lennan, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisions of Tp. 37 S. R. 3 N. S.S.P.M. Utah showing the respective capacities in which they acted:

Alma Riding

, Chainman.

Alma Riding

, Chainman.

, Moundman.

George Lennons

, Axman.

John Johnson

, Axman.

George Lennons

, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

John H. Clark <sup>Compassman for</sup> <sub>(deceased)</sub>

William Lennan, United States Deputy Surveyor, in surveying all those parts or portions of the

Subdivisions 7  
Tp. 37 S. R. 3 West

of the Salt Lake City meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Alma Riding

, Chainman.

Alma Riding

, Moundman.

, Moundman.

George Lennons

, Axman.

John Johnson

, Axman.

George Lennons

, Flagman.

Subscribed and sworn to before me this 26

day of May, 1905 }

Commission expires July 15, 1906



W. P. Young  
Notary Public

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_ of the \_\_\_\_\_

meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190 }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 190

The foregoing field notes of the survey of \_\_\_\_\_

executed by \_\_\_\_\_ under his contract No. \_\_\_\_\_, dated \_\_\_\_\_, 190\_\_\_\_\_, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by John T. Clark, Commissioner for Subdivisions of Townships, 37 S. R. No. 3 West, S. S. P. M. U. S. D. S. 15th United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisions of Townships, showing the respective capacities in which they acted:

<u>Reed Clark</u>	<u>Chairman</u> .
<u>Raymond Pratt</u>	<u>Chairman</u> .
<u>Reed Clark II</u>	<u>Moundman</u> .
<u>Raymond Pratt</u>	<u>Moundman</u> .
<u>James Houston</u>	<u>Axman</u> .
<u>James L. Clark</u>	<u>Flagman</u> .

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John T. Clark, Commissioner for Subdivisions of Townships, 37 S. R. No. 3 West United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Townships, 37 S. R. No. 3 West,

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

<u>Reed Clark</u>	<u>Chairman</u> .
<u>Raymond Pratt</u>	<u>Chairman</u> .
<u>Reed Clark II</u>	<u>Moundman</u> .
<u>Raymond Pratt</u>	<u>Moundman</u> .
<u>James Houston</u>	<u>Axman</u> .
<u>James L. Clark</u>	<u>Flagman</u> .
<u>Samuel Clark</u>	<u>Flagman</u> .

Subscribed and sworn to before me this 28  
day of August, 1905 }  
My Commission Expires Aug 15, 1906. }

John T. Clark, Notary Public  
Kayenta County, Utah

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John H. Clark, <sup>Comptroller for William Leaman, deceased</sup> United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blais, United States Surveyor General for Utah, bearing date of the 23 day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions; and the laws of the United States, surveyed all those parts or portions of the Subdivision of Townships 37 South Range 3 West of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed by said John H. Clark, and sworn to before me }  
this 29 day of August, 1905 }



George B. Harrington,  
Clerk of Court

## APPROVAL.

## OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah April 21, 1906

The foregoing field notes of the survey of the Subdivision lines of Township 37 South Range 3 West of the Salt Lake Base & Meridian, Utah

executed by John H. Clark, Comptroller for William Leaman, deceased under his contract No. 225, dated January 23, 1899, 1900, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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F.

# FIELD NOTES

X.3.B.

OF THE SURVEY OF THE

EAST AND SOUTH BOUNDARIES.

O.F.

TOWNSHIP THIRTY-EIGHT SOUTHRANGE THREE WEST

Of the SALT LAKE BASE AND Meridian,

IN THE STATE OF UTAH,

AS SURVEYED BY

Deceased,

John H. Clark, Compassman for William Lewman, United States Deputy Surveyor,

Under his Contract No. 225, dated January 23, 1899, 190

Survey commenced October 8, 1904.

Survey completed October 11, 1904.

C. B. B., English 1-00-00  
S. S. C. F. 76-89

## NAMES AND DUTIES OF ASSISTANTS.

Samuel Clark, ..... Chainman & Moundman.

Alma Riding ..... Chainman & Moundman.

John Johnson, ..... Axeman.

Frank Judd, ..... Axeman.

George Lemons, ..... Flagman.

Volume

#

R0332

BOOK A-332

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Township 38 North, Range 3 West, Sanpete County, Utah

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2

We Samuel Clark and Alma Ridings do solemnly swear that we will well and faithfully perform the duties of Channmen, that we will level the chain over even and uneven ground, and plumb the tally pins, etc., by sticking or dropping the same; that we will report the true distances of all notable objects and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Quad. Standard of Twp. 3 & South R 3 West. S. S. Band M. Utah.

Samuel Clark Chairman  
Alma Ridings Chairman

Subscribed and sworn before me John H. Chapman  
This 3<sup>rd</sup> day of October AD 1904 Commissioner  
William L. Lunn, Jr.  
Deputy Surveyor

W. Samuel Clark and Alma Ridings  
solemnly swear that we will well and truly  
perform the duties of Monitors in the  
Establishment of corners, according to instruc-  
tions given us, to the best of our skill and ability  
in the survey of the Land S. boundaries of  
Tps. 3 & 8. South Range 3 West S. L. Band,  
Nat.

Samuel Clark Monitor  
Alma Ridings Monitor

Scribed and sworn before me  
this 2nd day of October, AD 1914, John H. Clark  
Compterman for  
William Lewman, Jr.  
W. D. Pub. Surveyor

We, John Johnson and Frank Judd, do solemnly  
swear that we will well and truly perform  
the duties of axemen, in the establishment  
of corners and other duties, according to instructions  
sworn us to the best of our skill and ability,  
in the Survey of The Grand S. Boundary of  
Tp 38 South Range 8 West S.S. Band M. Wyo.

John Johnson Axeman

Frank Judd Axeman

Subscribed and sworn to before me this 2nd day of October A.D. 1904

John H. Clark

Compassman for  
William Brown, Deceas-

U.S. Deputy Surveyor

I George Lemos do solemnly swear that  
I will well and truly perform the duties of  
Flagman, according to instructions given me,  
to the best of my skill and ability in the  
service of the East & Boundary Co. of Igo. 38  
Range & West of S. K. and M. Wash.

George Lemos Flagman

Subscribed and sworn to before me John H. Clark  
this 2nd day of October 1904 Comptroller for  
William Newman, Esq.  
U. S. Deputy Surveyor

SEP 18

There being no notary public, or other officer authorized to administer oaths, within a reasonable distance, at the beginning of this survey; therefore, in order to save time and expense, I administer the preliminary affidavits of Samuel Clark as chainman and moundman; Alma Riding, as chainman and moundman; John Johnson, as chainman and axeman; Frank Judd, as chainman and axeman; and George Lemons, as flagman.

October 2, 1904.

*John H. Clark*  
Compassor U.S. Deputy Surveyor.  
*William Brown, Deceased,*

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East Boundary of T. 38 S. R. 3 E.

Chains.

Survey commenced Oct. 8, 1904, and executed with a S. and L.E. Gurley heavy engineers transit, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl. arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, June 18, 1904.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

Oct. 8: At the cor. of secs. 25, 30, 31, and 36, T. 38 S. R. 3 and 3 W., lat.  $37^{\circ}29'N.$ , long.  $112^{\circ}07'W.$ , at 2h 48m p.m. l.m.t., I set off  $5^{\circ}59'S$  on the decl. arc;  $37^{\circ}29'N.$  on the lat. arc; determine with the solar a true meridian; and mark a point thereof on a peg set firmly in the ground, 5.00 chs. N. of my station.

At 6h 16.7 m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of instructions, and mark a point on the line thus determined by driving a tack in a stake driven in the ground, 5.00 chs. N. of the cor.

Oct. 8, 1904.

---

Oct. 9: At 7h 0m a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}51'$  to the west and mark the true meridian thus determined, by driving a tack in the peg or stake set Oct. 8, on which the true meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h 47 m a.m., l.m.t., I set off  $37^{\circ}29'W.$  on the lat. arc;  $6^{\circ}13'S.$  on the decl. arc; and mark a point in the true meridian determined with the solar, by a tack

East Boundary of T. 38 S. R. 3 W.

Chains.

driven in the stake already set 5.00 chs. N. of my station; this point falls 0.5 ins. E. of the true meridian established by the Polaris observation.

The solar apparatus, by a.m. and p.m. observations, defines positions for true meridians, respectively about 0'16" east and 0'16" west. of the true meridian established by the Polaris observations; therefore, I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8 a.m., is N.  $15^{\circ}40'W.$ ; the angle thus determined reduced by the table page 100 gives the mean mag. decl.  $15^{\circ}37'E.$

I begin at the cor. of secs. 25, 30, 31, and 36, on the E. bdy. of the T. which is a sandstone 6x10x4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

Thence I run

South, bet. secs. 31 and 36.

Ascend through heavy timber.

2.25 Top of bench, bears E. and W.

22.00 N. side of Sheep Creek Canyon, 600 ft. deep, course SE. Road to Pahreah in the bottom.

To determine the distance across I set a flag on line on the S. side of the canyon; then I measure a base of 10.00 chs. W. to a point from whence the flag bears S.  $29^{\circ}03'E.$  From the flag the west end of the base bears N.  $29^{\circ}03'W.$ , which gives the distance across or makes 18.00 chs.; also 18.00 / 22.00 makes

40.00 S. edge of canyon.

Set a sandstone 20x6x4 ins., 15 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; from which

A pinion pine 5 ins. in diam. bears S.  $80^{\circ}W.$ , 85 lks. dist., marked  $\frac{1}{4}$  S 36 B T

A pinion pine 8 ins. in diam. bears S.  $7^{\circ}15'E.$ , 47 lks. dist., marked  $\frac{1}{4}$  S 31 B T

42.00 Top of ridge bears E. and W. and descend.

West  
100  
1800  
South

## East Boundary of T. 38 S. R. 5 W.

Chains.	
52.10	Bottom of hollow which drains E. and ascend.
57.00	Top of small ridge, bears E. and W., and descend.
67.50	Bottom of gully, which drains E. and ascend..
74.00	Top of point of ridge, bears NW. and SE.
76.00	Descend abruptly.
77.50	Descend more gradual.
80.00	Set a limestone 24x6x4 ins., 18 ins. in the ground for cor. of Ts. 38 and 39 S. Rs. 2 and 3 W., marked with 6 notches on each edge; from which  A pinion pine 9 ins. in diam. bears N.71°W. 67 lks. dist., marked T 38 S R 3 W S 36 B T  A pinion pine 13 ins. in diam. bears N12 $\frac{1}{2}$ °E. 54 lks. dist., marked T 38 S R 2 W S 31 B T  A pinion pine 9 ins. in diam. bears S.30°W. 36 $\frac{1}{2}$ lks. dist., marked T 39 S R 3 W S 1 B T  A cedar 14 ins. in diam. bears S23°E. 30 lks. dist., marked T 39 S R 2 W S 6 B T  Land rough and mountainous.  Soil, sandy, gravelly, and rocky, 2d and 4th rate. Timber, cedar and pinion pine. Brush, sage, deer, thimble-berry, mountain rush, and scrub oak.  Mountainous land or land heavily timbered, cedar and pine, or dense brush on 80.00 chs.

## South Boundary of T. 38 S. R. 3 W.

Chains.

- Oct. 9: At a point 2.56 ft. S. of the cor. to Ts. 38 and 39 S. Rs. 2 and 3 W., lat.  $37^{\circ}28'N$  long.  $112^{\circ}07'W.$ , just established by me and heretofore described, I set off  $6^{\circ}18'S.$  on the decl. arc and at 11h  $47\frac{1}{2}$  m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $37^{\circ}28'$ , which is the correct lat. very approximately. Thence I run
- N.  $89^{\circ}58'W.$  on the secant line S. of sec. 36.
- Descend gradually through heavy timber.
- 3.00 Bottom of hollow, drains  $S30^{\circ}E.$  to join main hollow, that drains  $S.80^{\circ}E.$
- 10.30 Top of small ridge, bears N. and S., and descend gradually.
- 16.60 Bottom of hollow drains SE., and ascend.
- 22.50 Descend abruptly into gully, drains SE.
- 23.90 Bottom of gully and ascend.
- 25.20 S. side of gully and descend.
- 26.30 N. side of gully leave it and ascend.
- 32.60 Leave timber, bears N. and S., and enter sage brush.
- 37.00 Leave sage and enter timber.
- 37.50 Top of hill, bears N. and S., and descend gradually.
- 38.50 Enter very heavy timber.
- 40.00 N. from the secant line 1.15 ft.
- Set a cedar post 36x4x4 ins., 24 ins. in the ground for sec. cor., marked  $\frac{1}{4}$  S on N. face; from which
- A cedar 8 ins. in diam. bears N.  $40^{\circ}E.$  88 lks.  
dist., marked  $\frac{1}{4}$  S 36 B T
- A cedar 10 ins. in diam. bears S.  $45^{\circ}E.$  18 lks.  
dist., marked  $\frac{1}{4}$  S 1 B T
- 45.30 Descend more abruptly through heavy cedar and pinon pine.
- 55.00 Descend abruptly, over rocks.
- 80.00 Set a sandstone 24x7x4 ins., 18 ins. in the ground for cor. of secs. 1, 2, 35, and 36, marked with one notch on the E. and 5 notches on the W. edges; from which
- A pinon pine 6 ins. in diam. bears N.  $70^{\circ}E.$  47 lks.

South Boundary of T. 38 S. R. 3 W.

Chains.	dist., marked T. 38 S. R. 3 W. S. 36 B. T. A pinion pine 4 ins. in diam. bears N. 58° W. 18 lks. dist., marked T. 38 S. R. 3 W. S. 35 B. T. No other trees available to mark; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, rough and mountainous. Soil, gravelly and sandy, with sandstone outcrops; 4th rate and worthless. Timber, heavy cedar and pinion pine. Brush, sage, mountain rush, deer. Mountainous land or land heavily timbered, with cedar and pinion pine, or dense brush on 80.00 chs. Cloudy. Rain.	Oct. 9, 1904.
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	M. 89° 59' W. on a secant line through sec. 35. Descend abruptly over cliffs into Bull Valley Canyon, 850 ft. deep, drains SE. then E. To obtain the distance across the canyon, I set a flag on the west side of the canyon, thence I measure a base of 20.00 chs. N. 0° 01' E. to a point from which the flag bears S. 52° 27' W. From the W. side of the canyon the N. end of the base bears N. 52° 27' E., which by computation gives the distance across the canyon as 26.00 chs.; so	
26.00	To west or SW. side of canyon. Enter heavy cedar and pine.	
27.20	Top of ridge, bears NE. and SW., and descend over small gullies, draining NE. to Bull Canyon.	
40.00	S. from the secant line 0.89 $\frac{1}{2}$ ft. Set a sandstone 20x6x4 ins., 15 ins. in the ground for $\frac{1}{4}$ sec. cor., set on S. side of a small wash, marked $\frac{1}{4}$ on N. face; from which	
	A pinion pine 10 ins. in diam. bears N. 15° E. 84 lks. dist., marked $\frac{1}{4}$ S. 35 B. T.	
	A pinion pine 11 ins. in diam. bears S. 54° W. 69 lks. dist., marked $\frac{1}{4}$ S. 2 B. T.	
40.50	Dry wash, drains NE.	

South Boundary of T. 38 S., R. 3 W.

Chains.

42.00	Ascend abruptly, 100 ft.
58.00	Top of hill, bears NE. and SW., and descend abruptly.
69.00	Bottom of hollow, drains NE., and ascend abruptly.
80.00	S. from secant line 1.53 $\frac{1}{2}$ ft. Set a sandstone 24x5x5 ins., 18 ins. in the ground for cor. of secs. 2, 3, 34, and 35, marked with 2 notches on the E. and 4 notches on the W. edges; from which A pinion pine 18 ins. in diam. bears N. 35° E. 24 lks. dist., marked T 38 S R 3 W S 35 B T A pinion pine 38 ins. in diam. bears S. 65° 27' W. 74 lks. dist., marked T 39 S R 3 W S 3 B T A pinion pine 10 ins. in diam. bears N. 18° 08' W. 59 lks. dist., marked T 38 S R 3 W S 34 B T No other trees available to mark; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land very rough and mountainous. Soil, rocky and gravelly; 4th rate and worthless. Timber, cedar and pinion pine and some yellow pine. Brush, deer, sage, mountain rush and scrub oak. Mountainous land and land coverd with heavy timber or dense brush on 80.00 chs.

R. 89° 59' W. on the secant through sec. 34.

Ascend abruptly, through heavy cedar and pinion pine and dense brush.

5.00	Top of hill bears NE. and SW., and descend gradually.
11.00	Descend abruptly into gulch, 75 ft. deep, drains N.
16.10	Top of ridge, bears N. and S. and descend.
19.00	Top of ridge, bears N. and S. and descend.
27.20	Bottom of ravine, 100 ft. deep, course NE., and ascend abruptly.
40.00	S. from the secant 1.92 ft. Set a sandstone 18x6x4 ins., 12 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinion pine 10 ins. in diam. bears N. 50° W. 48 lks. dist., marked T 38 S R 3 W S 34 B T

South Boundary of T. 38 S. R. 6 W.

Chains.

1ks. dist., marked  $\frac{1}{2}$  S 34 E T

A pinion pine 13 ins. in diam. bears S.3°10'W. 37

1ks., dist., marked  $\frac{1}{2}$  S 3 E T

Ascend.

44.00 Top of hill, bears N. and S., and leave timber.

50.00 Enter cedar and pinion pine timber.

54.50 Descend abruptly into a canyon, 100 ft. deep, drains N. 15°E.

60.00 Bottom of canyon and ascend abruptly.

64.00 W. side of canyon and descend gradually.

68.00 Descend abruptly into canyon, 100 ft. deep, drains N.10° E.

74.00 Bottom of canyon and over small ridge into box canyon, drains NE. into main canyon.

80.00 S. fro the secant 2.04 $\frac{1}{2}$  ft.

Set a sandstone 30x12x6 ins., 22 ins. in the ground for cor. of secs. 3, 4, 35, and 34, marked with 3 notches on the E. and 3 notches on the W. edges; from which

A pinion pine 24 ins. in diam. bears N.3°W. 38 lks. dist., marked T 38 S R 3 W S 33 E T

A pinion pine 30 ins. in diam. bears N.35°45'E. 40 lks. dist., marked T 38 S R 3 W S 34 E T

A pinion pine 24 ins. in diam. bears S.40°E. 50 lks. dist., marked T 39 S R 3 W S 3 E T

A pinion pine 20 ins. in diam. bears S.10°W. 35 lks. dist., marked T 39 S R 3 W S 4 E T

Land rough and mountainous.

Soil, rocky and gravelly; 4th rate and worthless.

Timber, cedar and pinion pine with yellow pine in the canyons.

Brush, deer, sage, mountain rush, and scrub oak.

Mountainous land or land heavily timbered or dense brush, on 80.00 chs.

Cloudy; rain. Solar observations impossible.

## South Boundary of T. 38 S. R. 3 W.

Chains.	
	Oct. 11: Cloudy. Solar observations impossible.
	West, on a secant through sec. 33.
	Through heavy timber and dense brush.
1.00	Bottom of ravine, drains NE., and ascend abruptly.
5.00	Ascend abruptly over cliffs 75 ft. high, bears NE. and SW.
7.00	Top of cliffs and ascend gradually.
15.00	Descend abruptly into gulch 100 ft. deep, drains N. 10° E.
24.00	W. side of gulch and ascend gradually.
25.00	Descend gradually over hill top.
40.00	S. from the secant 1.92 ft.
	Set a sandstone 18x4x4 ins., 12 ins. in the ground for $\frac{1}{2}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which
	A pinion pine 10 ins. in diam. bears N. $56\frac{1}{2}^{\circ}$ E., 15 lks. dist., marked $\frac{1}{2}$ S 33 B T
	A pinion pine 11 ins. in diam. bears S. $6\frac{1}{2}^{\circ}$ W. 70 lks. dist., marked $\frac{1}{4}$ S 4 B T.
44.00	Descend abruptly from high hill.
48.50	Bottom of gulch, 100 ft. deep, drains N., and ascend.
55.00	Top of low hill and descend.
61.00	Trail from Sheep Flat to Swallow Park, bears N. and S.
62.00	Ascend abruptly.
68.00	Top of ridge, bears NW. and SE., and run along S. slope of hill, bears N. $60^{\circ}$ E. and S. $60^{\circ}$ W.
80.00	S. from the secant 1.53 $\frac{1}{2}$ ft.
	Set a slaterock 26x8x4 ins., 19 ins. in the ground for cor. of secs. 4, 5, 32, and 33, marked with 4 notches on the E. and 2 notches on the W. edge; from which
	A pinion pine 12 ins. in diam. bears N. $74\frac{1}{2}^{\circ}$ W. 26 lks. dist., marked T 38 S R 3 W S 32 B T
	A pinion pine 16 ins. in diam. bears S. $62^{\circ}$ W. 64 lks. dist., marked T 39 S R 3 W S 5 B T
	A pinion pine 18 ins. in diam. bears S. $43\frac{3}{4}^{\circ}$ E. 49 lks. dist., marked T 39 S R 3 W S 4 B T
	A pinion pine 11 ins. in diam. bears N. $69\frac{1}{2}^{\circ}$ E. 78

South Boundary of T. 38 S. R. 3 W.

Chains.	lks. dist., marked T 38 S R.3 W S 33 B T Land rough and mountainous. Soil, rocky and sandy; 4th rate and worthless. Timber, cedar and pinion pine, with yellow pine in the canyon. Brush, deer, sage, mountain rush and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.00 cbs.
---------	---

	S. 89°59.. W. on the secant through sec. 32. Ascend through heavy timber and dense brush.
3.50	Top of ridge, bears N. and S., and descend abruptly.
12.00	Along S. slope of large gulch, drains from the NW.E. & NE.
20.00	Ascend abruptly.
27.00	Top of hill, bears NE. and SW., and descend.
30.00	Bottom of hollow, drains NE., and ascend.
38.00	Top of hill, bears NE. and SW.
40.00	S. from the secant 0.89 $\frac{1}{2}$ ft. Set a sandstone 18x6x4 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinion pine 11 ins. in diam. bears N. 1°W. 20 lks. dist., marked $\frac{1}{4}$ S 32 B T A pinion pine 10 ins. in diam. bears S. $5\frac{1}{2}$ lks. dist., marked $\frac{1}{4}$ S 5 B T
41.00	Top of hill and descend gradually along N. slope over small gullies, drain N.
57.00	Ascend up high hill.
62.50	Top of hill, bears N. and S., and descend
72.00	Top of ridge, bears N. and S. and descend abruptly.
75.50	Bottom of small gulch with gypsum ledges, 80 lks. wide, drains N. and ascend.
80.00	N. side of small gully, drains NE. Set a hard quartzite stone 24x5x4 ins., 18 ins. in the ground for cor. of secs. 5, 6, 31, and 32, marked with 5

## South Boundary of T. 38 S. R. 3 W.

Chains.

notches on the E., and 1 notch on the W. edges; from which

A pinion pine 18 ins. in diam. bears N. $66^{\circ}W.$   $16\frac{1}{2}$  lks., dist., marked T 38 S R 3 W S 31 B T

A pinion pine 7 ins. in diam. bears N. $22\frac{1}{4}^{\circ}E.$  57 lks. dist., marked T 38 S R 3 W S 32 B T

A pinion pine 9 ins. in diam. bears S. $42\frac{1}{2}^{\circ}E.$  83 lks. dist., marked T 39 S R 3 W S 5 B T

A pinion pine 12 ins. in diam. bears S. $50\frac{1}{2}^{\circ}W.$ , 48 lks. dist., marked T 39 S R 3 W S 6 B T

Land, rough and mountainous.

Soil, rocky and gravelly with gypsum on the last 30.00 chs.; 4th rate and worthless.

Timber, cedar and pinion pine with yellow pine.

Brush, deer, sage, mountain rush and scrub oak.

Mountainous land or land covered with heavy timber or covered with dense brush on 80.00 chs.

S. $89^{\circ}59'W.$  on the secant S. of sec. 31.

Ascend abruptly through heavy cedar and pinion pine and dense brush.

9.00 Top of hill bears N. and S., and descend through very heavy timber over gypsum.

25.00 Descend over gypsum ledges.

29.00 Bottom of hollow drains N. and ascend abruptly over gypsum ledges.

38.00 Top of hill, bears N. and S. and descend over rough gypsum outcrops.

40.00 N. from the secant 1.15 ft.

Set a hard gypsumstone 26x8x6 ins., 19 ins. in the ground for  $\frac{1}{4}$  sec. cor., set S. of small gypsum ravine, marked  $\frac{1}{4}$  on N. face; from which

A pinion pine 15 ins. in diam. bears N. $60\frac{1}{2}^{\circ}W.$  47 lks. dist., marked  $\frac{1}{4}$  S 31 B T

A pinion pine 12 ins. in diam. bears S. $55^{\circ}15'W.$  21

## South Boundary of T. 38 S., R. 3 W.

Chains

lks. dist., marked 4 S 6 B T

Ascend over broken hilltop.

52.00

Descend abruptly.

60.00

Bottom of hollow, drains N. and ascend abruptly.

64.00

Top of ridge, bears N. and S. and descend.

66.50

Bottom of hollow, course N. 10° E., and ascend.

78.89

Allowing 1.11 chs.

Which is the proper convergency for this line.

N. from the secant 2.56 ft.

Set temp. cor. for T. 38 and 39 S. R. 3 and 4 W.

For description of permanent cor. see notes of Emery Valley Guide Meridian, book "C" of this survey.

Land rough and mountainous.

Soil; sandy and rocky with gypsum ledges; worthless.

Timber, cedar and pinion pine with a few yellow pine.

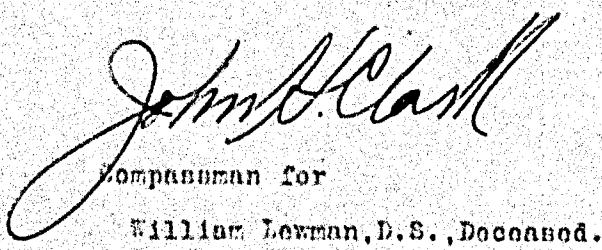
Brush, deer, sage, thimble-berry, mountain rush, and scrub oak.

Mountainous land or land covered with heavy timber or dense brush on 78.89 chs.

Cloudy; rain; for solar observation see Book "G".

Oct. 11, 1904.

For general description see notes of subdivision of  
this township.



Compassman for  
William Lewman, D.S., Deceased.

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## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by John Clark, compassman for  
William Lewman, Deceased, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Lands  
Bounded by Twp 38 S., R 8 W. S.S. Base and Meridian Line, showing the respective capacities in which they acted:

Samuel Clark ..... Chainman.  
Alvina Ridings ..... Chainman.  
Samuel Clark ..... Moundman.  
Alvina Ridings ..... Moundman.  
John Johnson ..... Axman.  
Frank Judd ..... Axman.  
George Lemos ..... Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John Clark, compassman for  
William Lewman, Deceased, United States Deputy Surveyor, in surveying all those parts or portions of the Land S. Boundary of Township  
38 North Range 3 West

of the State Keeler's Meridian, State of Mass., which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Clark.

Samuel Clark ..... Chainman.  
Alvina Ridings ..... Chainman.  
Samuel Clark ..... Moundman.  
Alvina Ridings ..... Moundman.  
John Johnson ..... Axman.  
Frank Judd ..... Axman.  
George Lemos ..... Flagman.

Subscribed and sworn to before me this 28  
day of August AD 1906 }  
My Commission Expires }  
8:00 P.M. Feb 15, 1906,  
6-151

Wm. D. Parment: Notary Public  
Marshall County Mass.

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John H. Clark, Carpenter for William Lewman, deceased United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for Clark, bearing date of the 23 day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Petate, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of East & South Boundaries of Townships 38 South Range 3 West of the Salt Lake base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Clark, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Subscribed by said John H. Clark, and sworn to before me  
this 29th day of August, 1900

© SEAL ©

Geo B Hancock  
Deputy Court.

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1901  
The foregoing field notes of the survey of the East & South Boundaries of Township 38 South Range 3 West of the Salt Lake Base and Meridian, Utah

executed by John H. Clark, Carpenter for William Lewman, deceased under his contract No. 225, dated January 23, 1899, 1900, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Dull  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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SEP 6 1905

BOOK A-332

G.

## FIELD NOTES

OF THE SURVEY OF THE

EMERY VALLEY GUIDE MERIDIAN

O.R.

W E S T B O U N D A R Y

O.F.

TOWNSHIP THIRTY-EIGHT SOUTH,RANGE THREE WEST,Of the SALT LAKE BASE AND Meridian,IN THE STATE OF UTAH,

AS SURVEYED BY

Decesed,

John H. Clark, Compassian for William Lewellen, United States Deputy Surveyor,

under his Contract No. 225, dated January 23, 1899, 190

Survey commenced October 11th, 1904.

Survey completed October 16th, 1904.

High 5-79-13

## NAMES AND DUTIES OF ASSISTANTS.

Samuel Clark, Chainman & Moundman.

Alma Riding, Chainman & Moundman.

John Johnson, Chainman & Axeman.

Frank Judd, Chainman & Axeman.

George Lemons, Flagman.

Volume

#

R0332

BOOK A-332

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Township 38 South, Range 3 West 1/8 Sectional Map

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Meanders Page

W<sup>t</sup> Samuel Clark, Alma Ridings, John Johnson  
and Frank Judd do solemnly swear that we will  
well and faithfully perform the duties of Channell,  
that we will level the chain upon even and uneven  
ground, and plumb the tally pins, either by sticking  
or dropping the same; that we will report the true distance  
to all notable objects, and the true lengths of all lines  
that we ascertain measuring to the best of our skill  
and ability and in accordance with instructions given  
us in the survey of the Meny Valley Guide Meridian  
or West Bdy. of Twp 38 S. R3 W. & L Band M, Utah

Samuel Clark Chairman  
Alma Ridings Chairman  
John Johnson Chairman  
Frank Judd Chairman

Subscribed and sworn before me  
This 2nd day of October AD 1904 John H. Clark  
Comptroller for  
William Lewman, Surveyor  
W. D. Dwyer, Surveyor

BOOK A. 832 12

We Sammel Clark and Alma Ridings do  
solemnly swear that we will well and truly  
perform the duties of Boundary men in the  
establishment of corners, according to the  
instructions given us, to the best of our  
skill and ability in the survey of the Lower  
Valley Grid Survey or West Boundary  
of Dp 88 S. R. 3 W. S. S. and M. W. M.

Sammel Clark Boundary man  
Alma Ridings Boundary man

Subscribed and sworn before me (John H. Clark)  
this 2nd day of October A.D. 1904  
Compass and  
William Schumacher  
W. H. Deputy Surveyor

Mr. John Johnson and Frank Judd Ayers  
do swear that we will well and truly perform  
the duties of Surveyors in the establishment  
of corners and other duties, according to  
the instructions given us & the best of our  
skill and ability in the carrying of the  
Perry Valley Guide Meridian or First  
Boundary of the 88<sup>th</sup> M. S. R. & S. E. and N. W.  
W. L. S. R.

John Johnson Surveyor  
Frank Judd Ayers

I do hereby and swear to before me this day of October A.D. 1904 I do certify that  
William C. Johnson  
Notary Public  
Notary Public

I, George Lemons, do solemnly swear  
that I will well and truly perform the  
duties of Flagman, according to instructions  
given me, to the best of my skill and ability,  
in the survey of the Emery Valley, said  
meridian or West Boundary of 2<sup>o</sup> 38' S R 3 W  
J. L. Band M. Utah.

George Lemons Flagman

Subscribed and sworn before me  
this 2nd day of October A.D. 1904, John H. Clark  
Comptroller to  
William Leaman, Esq.  
U.S. Deputy Surveyor

G BOOK A-332

Emery Valley Guide Meridian or West Boundary of T.38 S. R.3 W.

Chains.

Survey commenced Oct. 11, 1904, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours with a true meridian determined by observations on Polaris, I proceed as follows:-

At the temp. cor. of 1°s.38 and 39 S. Rs.3 and 4 W., just set by me, I set off  $37^{\circ}28'N.$  on the lat. arc;  $7^{\circ}06'S.$  on the decl. arc; and at 3h 47m p.m., l.m.t., determine with the solar a true meridian and mark a point thereof by a nail driven in a stake firmly set in the ground 5.00 chs. N. of the cor.

At 6h 08.8 m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with manual of instructions, and mark a point in the line thus determined, by a nail driven in a stake firmly set in the ground 5.00 chs. E. of my station.

Oct. 11, 1904.

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Oct. 12: At 7h 30m a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}31'$  to the west, and mark the true meridian thus determined, by driving a nail in the stake set Oct. 11, on which the true meridian falls 0.2 ins. E. of the mark determined by the solar.

At 7h.47m a.m., l.m.t., I set off  $37^{\circ}28'$  on the lat. arc;  $7^{\circ}21'S.$  on the decl. arc; and mark a point in the true meridian determined with the solar, by a nail in the stake already set 5.00 chs. N. of my station; this mark falls 0.6 ins. east of the true meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for true meridians, respectively about 0'11" west and 0'31" east of the meridian established by the

## Emery Valley Guide Meridian or West Boundary of T. 38 S. R. 3 W.

Chains.	Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.
	The mag. bearing of the true meridian, at 7h 40m a.m., is N. $15^{\circ}40'W.$ which gives, the angle being reduced by the table, page 100 gives the mean mag. decl. $15^{\circ}37'E.$ Thence I run from the temp. T. cor. already described.
	North on a random line along the W. bdy. of the T. and at
479.85	Intersect the N. bdy of the T. at the cor. of Ts. 37 and 38 S. Rs. 3 and 4 W., set by my self, in the survey of the S. bdy of Tp. 37 S. R. 3 W. and previously described.
	Oct. 14: At 3h 46m p.m., l.m.t., I set off $37^{\circ}33'N.$ on the lat. arc; $8^{\circ}13'S.$ on the decl. arc; and determine a true meridian with the solar at the cor. of Ts. 37 and 38 S. Rs. 3 and 4 W.
	Thence I run
	South, on a true line bet. secs. 1 and 6.
	Ascend gradually, through heavy timber and dense brush.
14.50	Descend gradually.
16.00	Ascend.
26.50	Top of hill bears E. and W. and descend abruptly.
29.50	Bottom of hill and ascend.
	Difference bet. measurements of 39.85 chs., by two sets of chainmen, is 10 lks; position of middle point
	By 1st set, 39.80 chs.
	By 2nd set, 39.90 chs.; the mean of which is
39.85	Set a sandstone 18x12x3 ins.; 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
	A yellow pine 24 ins. in diam. bears N. $3^{\circ}E.$ 16 lks. dist., marked $\frac{1}{4}$ S 6 B T
	A pinion pine 10 ins. in diam. bears S. $35^{\circ}W.$ 30 lks. dist., marked $\frac{1}{4}$ S 1 B T
47.50	Top of broken hill, bears E. and W.
61.00	Descend abruptly.
65.50	Gradual descent into a sort of hollow.

## Emery Valley Guide Meridian or West Boundary of T.38 S. R.3 W.

Chains.	
66.50	Bottom of hollow, drains E.
68.00	S. side of hollow and ascend.
77.00	Top of hill bears E. and N.
78.50	Descend.  Difference bet. measurment of 79.85 chs., by two sets of chainmen is, 8 lks.; position of middle point By 1st set, 79.89 chs.
79.85	By 2nd set, 79.81 chs.; the mean of which is.  Set a limestone 18x12x8 ins., 12 ins. in the ground for cor, of secs. 1, 6, 7, and 12, marked with 1 notch on the N. and 5 notches on the S. edges; from which A cedar 10 ins. in diam. bears N.46°W. 55 lks. dist., marked T 38 S R 4 W S 1 B T A pinion pine 8 ins. in diam. bears S.30 $\frac{1}{4}$ °W. 44 lks. dist., marked T 38 S R 4 W S 12 B T A, pinion pine 8 ins. in diam. bears S.22°E. 25 lks. dist., marked T 38 S R 3 W S 7 B T No other trees available to mark; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land rough and mountainous. Soil, rocky and gravelly; 4th rate. Timber, heavy cedar and pinion pine. Brush, sage, deer, mountain rush, thimble-berry, and scrub oak. Mountainous land, or land covered with heavy timber or dense brush on 79.85 chs.
	Cloudy; snow. Oct.14,1904.
	Oct.15: Cloudy. Solar observations impossible. South, on a true line bet. secs. 7 and 12. Through heavy cedar and pinion pine and dense brush.
10.00	Ascend gently across small ridges, bear NW. and S. 22.50 Bottom of hill and ascend abruptly. 24.00 Ascend gradually through timber. Difference bet. measurement of 40.00 chs., by two sets of

Every Valley Guide Meridian or West Boundary of T. 38 S. R. 3 E.

- Chains chainmen, is 9 lks.; position of middle point  
 By 1st set, 40.04 $\frac{1}{2}$  chs.  
 By 2nd set. 35.95 $\frac{1}{2}$  chs.; the mean of which is  
 40.00 Set a sandstone 16x14x4 ins., 11 ins. in the ground for  
 4 sec. cor., marked  $\frac{1}{2}$  on W. face; from which  
 A pinion pine 10 ins. in diam. bears N. 4° 20' E. 25  
 lks. dist., marked  $\frac{1}{4}$  S 7 B T  
 A pinion pine 11 ins. in diam. bears S. 7° W. 21 lks.  
 dist., marked  $\frac{1}{4}$  S 12 B T  
 49,50 Top of hill, 400 ft. high, bears E. and W. Very heavy cedar  
 and pinion pine.  
 50.00 Descend very abruptly, 400 ft.  
 51.00 Leave heavy cedar and pinion pine, bears E. and W.  
 52.50 Descend abruptly, along E. side of point of hill on W.  
 side of cove or gulch, drains S.  
 70.50 Bottom of hill and enter thick cedar and pinion pine,  
 bears NE. and SW.  
 Difference bet. measurement of 80.00 chs., by two sets of  
 chainmen, is 12 lks.; position of middle point  
 By 1st set, 80.06 chs.  
 By 2nd set, 79.94 chs.; the mean of which is  
 86.00 Set a sandstone 16x10x8 ins., 11 ins. in the ground for  
 cor. of secs. 7, 12, 13, and 18, marked with 2 notches on the N. and 4 notches on the S. edges; from which  
 A pinion pine 10 ins. in diam. bears S. 32° E. 27 lks.  
 dist., marked T 38 S R 3 W S 18 B T  
 A cedar 12 ins. in diam. bears S. 47° W. 42 lks. dist.,  
 marked T 38 S R 4 W S 13 B T  
 A pinion pine 12 ins. in diam. bears N. 7° 25' W. 80 $\frac{1}{2}$   
 lks., dist., marked T 38 S R 4 W S 12 B T  
 A cedar 24 ins. in diam. bears N. 34° 20' E. 45 lks.  
 dist., marked T 38 S R 3 W S 7 B T  
 Land, rough and mountainous.  
 Soil, gravelly and rocky; 4th rate and worthless.  
 Timber, heavy pinion pine and cedar.

## Emery Valley Guide Meridian or West Boundary of T.38 S., R.3 W.

Chains.	Brush, sage, deer, mountain rush, scrub oak, and thimbleberry.
	Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
	South, on a true line bet. secs. 13 and 18.
	Descend gradually through heavy cedar and pinion pine, and dense brush, and enter Willis Creek valley or canyon.
6.00	Leave timber and enter dense sage brush.
11.50	Enter cedar and pinion pine, bears E. and W.
13.00	Leave timber, bears E. and W.
15.00	N. edge of Willis Creek, 15 ft. deep, course E.
15.50	Willis Creek, 20 lks. wide, 2 ins. deep, pure water, course E.
16.50	S. edge of the creek bed.
22.50	Foot of hills, bear E. and W., and enter heavy scrub oak. Ascend.
23.50	Enter heavy cedar and pinion pine, bears NE. and SW.; thence over ridges and gutters, drainNE.
30.00	Descend along E. side of ridge, bears N. and S. from main mountain.
34.00	Descend abruptly.
38.00	Bottom of hollow or gully, drains NE.; and ascend abruptly.
	Difference bet. measurements of 40.00 chs., by two sets of chainmen, is 11 lks.; position for middle point
	By 1st set, 40.05½ chs.
	By 2nd set, 39.94½ chs.; the mean of which
40.00	Set a sedimentary(sand and cobble) stone 16x11x4 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	A pinion pine 8 ins. in diam. bears N.69°35'W. 18 lks. dist., marked ¼ S 13 B T
	A cedar 18 ins. in diam. bears S.3°E., 10 lks. dist., marked ¼ S 18 B T
40.25	Top of small ridge, bears E. and W. from side of hill; and descend along a steep side hill.

## Emery Valley Guide Meridian or West Boundary of T. 38 S. R. 3 E.

Chains.	
49.00	Ascend abruptly over very broken land.
54.00	Pinnacle of a clay ridge, bears E. and W.
56.00	Ascend abruptly over broken ridges, bears E. and W.
65.00	Ascend gradually along top of main hill, bears E. and W.
70.50	Leave cedar and pinion pine, circular.
79.00	Enter very heavy cedar and pinion pine; bear NW. and SE. Difference bet. measurements of 80.00 chs., by two sets of chainmen, is 14 lks.; position of middle point. By 1st set, 80.07 chs. By 2nd set, 79.93 chs.; the mean of which is
80.00	Set a sedimentary stone 17x7x7 ins., 11 ins. in the ground for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on the N. and 3 notches on the S. edges; from which A pinion pine 24 ins. in diam. bears S.32°10'W. 47 lks. dist., marked T 38 S R 4 E S 24 B T A pinion pine 11 ins. in diam. bears S.35°E. 17 lks. dist., marked T 38 S R 3 E S 19 B T A pinion pine 11 ins. in diam. bears N.65°40'E. 60 lks. dist., marked T 38 S R 3 E S 18 B T No other trees available to mark; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Fits impracticable. Land very rough and mountainous. Soil, sandy and gravelly loam, 2d. rate; gravel and clay 4th rate worthless. Timber, cedar and pinion pine Brush, deer, sage, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs. Cloudy; snow and rain. Solar observations impossible.
6.34	Oct. 15, 1904.  South, on a true line bet. secs. 19 and 24. Through heavy brush and dense cedar and pinion pine. Top of hill bears NE. and SW., and descend over ridges and gutters along E. slope of point of mountain, 800 ft.

Emery Valley Guide Meridian or West Boundary of T.38 S. R.3 W. Chains.	
	high. Leave timber, bears E. and NW.
15.50	Ascend abruptly over small ledges, bear E. and W.
19.00	Descend abruptly over ledge, 80 ft. high, bears E. and W.
19.40	Foot of ledge and descend over red sandstone cliffs, 200 ft. high, bear E. and W.
23.00	Bottom of hollow, drains SE.; and ascend gradually; and enter heavy pinion pine and cedar.
33.90	Top of ridge, bears E. and W.; and descend.
39.00	Bottom of hollow, drains E.
	Difference bet. measurements of 40.00 chs., by two sets of chainmen, is 18 lks.; position of middle point
	By 1st set, 40.09 chs.
	By 2nd set, 39.91 chs.; the mean of which is.
40.00	Set a sandstone 16x13x4 ins., 10 ins. in the ground for sec. cor., marked $\frac{1}{2}$ on W. face; from which
	" pinion pine 28 ins. in diam. bears N.83 $\frac{1}{4}$ E. 15 lks., dist., marked $\frac{1}{2}$ S 19 B T
	" pinion pine 10 ins. in diam. bears S.27°W. 23 lks. dist., marked $\frac{1}{2}$ S 24 B T
41.00	Ascend abruptly.
43.43	Top of ridge, bears S.15°E. and N.15°W., and descend.
55.50	Top of hill. bears E. and W.; and descend gradually.
60.00	Descend abruptly along E. slope of hill.
69.50	Foot of hill and enter small valley, drains NE.
74.50	Ascend abruptly.
76.50	Top of hill, bears NE. and SW.; and descend abruptly.
	Difference bet. measurements of 80.00 chs. by two sets of chainmen, is 10 lks.; position of middle point
	By 1st set, 80.05 chs.
	By 2nd set, 79.95 chs. the mean of which
80.00	Set a sandstone 17x9x5 ins., 11 ins. in the ground for cor. of secs. 19, 24, 25, and 30, marked with 4 notches on the N. and 2 notches on the S. edges; from which
	" pinion pine 14 ins. in diam. bears N.21 $\frac{1}{4}$ E. 35 lks. dist., marked T 38 S R 3 W S 19 B T

Emery Valley Guide Meridian or West Boundary of T. 38 S. R. 3 W.  
Chains.

A pinion pine 12 ins. in diam. bears N.22°10'W. 68 lks. dist., marked T 38 S R 4 W S 24 B T

No other trees available to mark; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Pits impracticable. Land, very rough and mountainous.

Soil, rocky, 4th rate and worthless; sandy and gravelly loam 2d. rate.

Timber, cedar and pinion pine.

Brush, deer, sage, scrub oak, and thimble-berry.

Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

---

South, on a true line bet. secs. 25 and 30.

Through dense brush. Leave cedar and pinion pine, and enter small valley, drains NE.

5.50 S. side of valley or hollow and enter cedar and pinion pine, bears E. and W.

8.00 Top of ridge, bears E. and W., comes from main hill on E. and descend abruptly 1.00 ch.

11.50 Ascend along W. end of mountain over ridges and gullies, drain, W.

33.50 Enter branch of Bull Valley Canyon, drains Easterly.

Difference bet. measurements of 40.00 chs, by two sets of chainmen, is 8 lks.; position of middle point

By 1st set, 40.04 chs.

By 2nd set, 39.96 chs.; the mean of which is

40.00 Set a sandstone 21x9x4 ins., 15 ins. in the ground for sec. cor., marked  $\frac{1}{4}$  on W. face; from which

A pinion pine 14 ins. in diam. bears S.38°W. 193 lks. dist., marked  $\frac{1}{4}$  S 25 B T

A cedar 24 ins. in diam. bears N.35 $\frac{1}{2}$ °E. 118 lks. dist., marked  $\frac{1}{4}$  S 30 B T

42.00 Foot of high hill and ascend abruptly, 150 ft.

55.00 Top of hill, bears E. and W.; and thence over very broken bench. Very heavy cedar and pinion pine timber.

Emery Valley Guide Meridian or West Boundary of T. 38 S. R. 3 E.  
Chains.

	-difference bet. measurements of 80.00 chs., by two sets of chainmen, is 8 lks.; position of middle point By 1st set, 80.04. chs.
80.00	Set a sandstone 16x9x6 ins., 12 ins. in the ground for cor. of secs. 25, 30, 31, and 36, marked with 5 notches on the N. edge and 1 notch on the S. edge; from which A cedar 24 ins. in diam. bears S.73°21'W. 43 lks. dist., marked T 38 S R 4 W S 36 B T A pinion pine 10 ins. in diam. bears S.59°E. 39 lks. dist., marked T 38 S R 3 W S 31 B T A cedar 30 ins. in diam. bears N.61°05'W. 67 lks. dist., marked T 38 S R 4 W S 25 B T A cedar 24 ins. in diam.. bears N.47½°E. 40 lks. dist., marked T 38 S R 3 W S 30 B T Land, rough and mountainous. Soil, in valleys is sandy loam; 2nd rate, gravelly and rocky on hills; 4th rate and worthless. Timber, cedar and pinion pine. Brush, deer, sage, thimble-berry, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

	South, on a true line bet. secs. 31 and 36. Through heavy timber and cedar timber, and dense brush.
1.50	Descend abruptly into gulch, drains E., 75 ft. deep.
6.00	Bottom of gulch and ascend.
7.00	Top of hill, bears E. and W.
8.00	Along W. slope of hill or ridge, bears NE. and SW., from hill, and descend over ridges, bear E. and W.
21.10	Bottom of dry wash, 18 ft. deep, drains SE.
22.00	S. side of wash.
23.00	Ascend abruptly.
25.60	Top of ridge, bears E. and W. and descend abruptly into gulch, or hollow.

## Merry Valley Guide Meridian or West Boundary of T. 38 S. R. 3 W.

Chains	
31.50	Bottom of gulch, drains E.
32.50	S. side of gulch and ascend over gypsum ledge, 15 ft. high.
34.50	Top of ridge, bears E. and W.
35.50	Bottom of hollow, drains N $20^{\circ}$ E. and ascend. Difference bet. measurements of 40.00 chs., by two sets of of chainmen, is 12 lks.; position of middle point By 1st set, 40.06. chs.
	By 2nd set, 39.94 chs.; the mean of which is
40.00	Set a sandstone 16x9x4 ins., 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 8 ins. in diam. bears S. $46^{\circ}25'E.$ 7 $\frac{1}{2}$ lks. dist., marked $\frac{1}{4}$ S 31 B T A pinion pine 9 ins. in diam. bears N. $85^{\circ}W.$ 67 lks. dist., marked $\frac{1}{4}$ S 36 B T
40.10	Ascend across numerous small ridges and gullies, drain. SE. into main gulch, draining NE.
70.00	Gradual ascent. Difference bet. measurements of 80.00 chs, by two sets of chainmen, is 10 lks.; position of middle point By 1st set, 80.05 chs.
	By 2nd set, 79.95 chs.; the mean of which is
80.00	Set a sandstone 26x6x6 ins., 20 ins. in the ground for cor.. of Ts. 38 and 39 S. Rs. 3 and 4 W., marked with 6 notches on each edge; from which A cedar 20 ins. in diam. bears N. $63^{\circ}10'E.$ 80 lks. dist., marked T 38 S R 3 W S 31 B T A pinion pine 14 ins. in diam. bears N. $15^{\circ}W.$ 93 lks. dist., marked T 38 S R 4 W S 36 B T A cedar 14 ins. in diam. bears S. $79^{\circ}07'W.$ 64 lks. dist., marked T 39 S R 4 W S 1 B T A pinion pine 10 ins. in diam. bears S. $36^{\circ}E.$ 41 lks. dist., marked T 39 S R 3 W S 6 B T Destroy all trace of temp.corner previously set. Land rough and mountainous. Soil, sandy, gravelly, and rocky, with gypsum; 4th rate and worthless.

Emery Valley Guide Meridian or West Boundary of T.38 S., R.3 W.  
Chains.

- Timber, cedar and pinion pine.
- Brush, deer, sage, scrub oak, and thimble-berry.
- Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
- Cloudy. Snow. Solar observations impossible.

Oct. 16, 1904.

BOUNDARIES OF T.38 S. R.3 W.

Latitudes, departures, and closing errors.

Line designated.	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
City. T.38 S. R.3 W.-----	West--	Chs. 478.89	Chs.	Chs.	Chs.	Chs. 478.89
Emery Valley G. Meridian-	North--	479.85	479.85	-----	-----	-----
City. T.38 S. R.3 W.-----	East --	478.33	-----	-----	478.33	-----
City. T.38 S. R.3 W.-----	South--	480.00	-----	480.00	-----	-----
Convergence-----					56	-----
Total-----			479.85	480.00	478.89	478.89
Error in lat-----				479.85	478.89	-----
				0.15	0.00	Error in

For general description see subdivision notes of this township, (book "J").

*John H. Clark*  
Compassman for

October 16, 1904.

William Lewman, D.S., Deceased.

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## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by John S. Clark, compassman for William Sherman, Director, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Mary Valley Guide Meridian or West Bdg of 2d 38S R. 3 N. S. B. showing the respective capacities in which they acted:

<u>Samuel Clark</u>	<u>Alma Ridings</u>	<u>Chairman</u> .
<u>John Johnson</u>	<u>Frank Judd</u>	<u>Chairman</u> .
<u>Samuel Clark</u>		<u>Moundman</u> .
<u>Alma Ridings</u>		<u>Moundman</u> .
<u>John Johnson</u>		<u>Axman</u> .
<u>Frank Judd</u>		<u>Axman</u> .
<u>George Simmons</u>		<u>Flagman</u> .

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John S. Clark, compassman for William Sherman, Director, United States Deputy Surveyor, in surveying all the parts or portions of the Mary Valley Guide Meridian of the Brownell Line of Boundary 38 South Marys & Green River West of the Salt Lake Valley meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the survey monuments established, according to the instructions furnished by the United States Surveyor General for Clark.

<u>Samuel Clark</u>	<u>John Johnson</u>	<u>Chairman</u> .
<u>Alma Ridings</u>	<u>Frank Judd</u>	<u>Chairman</u> .
<u>Samuel Clark</u>		<u>Moundman</u> .
<u>Alma Ridings</u>		<u>Moundman</u> .
<u>John Johnson</u>		<u>Axman</u> .
<u>Frank Judd</u>		<u>Axman</u> .
<u>George Simmons</u>		<u>Flagman</u> .

Subscribed and sworn to before me this 28<sup>th</sup> day of August, 1905  
My Commission Expires February 15, 1906

W. P. Farnsworth, Notary Public  
Jefferson County, Utah

36  
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John H. Clark, Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair, United States Surveyor General for Utah, bearing date of the 23 day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Emery Valley Grade Meridian or West Boundary of Township 38 South Range 3 West, of the Salt Lake base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John H. Clark  
Comptroller for United States Deputy Surveyor.  
W. Newman, deceased.

Subscribed by said John H. Clark, and sworn to before me this 29 day of August 1903

000000  
SEAL  
000000

Geo B Hancock  
Clark of Court

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, April 21, 1906

The foregoing field notes of the survey of the Emery Valley Grade Meridian or West Boundary of Township 38 South Range 3 West of the Salt Lake Base & Meridian, Utah,

executed by John H. Clark, Comptroller for William Newman, deceased, under his contract No. 2257, dated January 23, 1899, 1903, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in..... has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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FILED  
SEP 6 1905

BOOK A-332

J.

R. S. C.

## FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS,

O F

TOWNSHIP THIRTY-EIGHT SOUTH,

RANGE THREE WEST,

Of the SALT LAKE BASE AND Meridian,

IN THE STATE OF UTAH,

AS SURVEYED BY

John H. Clark, Compassman for William Lewman, <sup>Deceased.</sup> United States Deputy Surveyor,

Under his Contract No. 225, dated January 23, 1899, 190

Survey commenced April 19th, 1905.

Survey completed May 12 th, 1905.

6-161

High 56-38-15  
Low 34-30  
56 72-45

**NAMES AND DUTIES OF ASSISTANTS.**

J. Cecil Clark,

Chainman.

Samuel L. Gould,

Chainman & Moundman.

Wm. M. Mangum,

Chainman & Moundman.

Aza Smith,

Axeman.

Daniel Judd,

Axeman.

Neils C. Ipson,

Flagman.

## INDEX DIAGRAM.

Township 38 South, Range 3 West S.S. 1/4 M. Utah

6	62	5	49	4	37	3	25	2	13	1
61		60		48		36		24		12
7	59	8	47	9	30	10	23	11	11	12
59		59		46		34		22		10
18	68	17	45	16	23	15	21	14	9	13
57		56		44		32		20		8
19	63	20	43	21	31	22	19	23	6	24
54		54		42		30		18		5
30	53	29	40	28	29	27	17	26	4	25
52		51		40		28		16		3
31	50	32	38	33	27	34	15	35	2	36

Meanders Page.....

## PRELIMINARY OATHS OF ASSISTANTS.

WE, Heil Clark, Wm M. Mangum, and Samuel Gould  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the  
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that  
we will report the true distances to all notable objects, and the true lengths of all lines that we assist in  
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of  
the Subdivisions of Tp. 38 S.R. 3 N. d. B & M. Utah

Heil Clark

Chainman.

Wm M. Mangum

Chainman.

Subscribed and sworn to before me this

15 -

day of

April 10, 1905  
My Commission Expires  
 Feb 15/906

Samuel S. Gould

Wm M. Mangum  
Notary Public  
Garfield County, Utah

WE,

Samuel S. Gould

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment  
of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

The Subdivisions of Tp. 38 S.R. 3 N. d. B & M. Utah

Samuel S. Gould

Moundman

Wm M. Mangum

Moundman

Subscribed and sworn to before me this

15 -

day of

April 10, 1905  
My Commission Expires  
 Feb 15/906

WE,

Bra Smith

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner  
and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

The Subdivisions of Tp. 38 S.R. 3 N. d. B & M. Utah

Bra Smith

Axman

Daniel Judd

Axman

Subscribed and sworn to before me this

15 -

day of

April 10, 1905  
My Commission Expires  
 Feb 15/906

1. Heil Johnson

do solemnly swear that I will well and truly  
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the

survey of The Subdivisions of Tp. 38 S.R. 3 N. d. B & M. Utah

Heil Johnson

Flagman

Subscribed and sworn to before me this

15 -

day of

April 10, 1905  
My Commission Expires  
 Feb 15/906

Heil Johnson

Flagman

Subdivision of T. 38 S. R. 3 W.

Chains.

Survey commenced April 19, 1905, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, I proceed as follows:-

At the cor. of secs. 1, 2, 35, and 36, Ts. 38 and 39 S. R. 3 W., lat.  $37^{\circ}28'N.$ , longitudell  $12^{\circ}08'W.$ ; I set off  $37^{\circ}28'N.$  on the lat. arc;  $11^{\circ}33'N.$  on the decl. arc; and, at 4h 0m p.m., l.m.t., determine with the solar a true meridian and mark a point thereof, on a stake driven 5.00 chs. N. of my station.

April 19, 1905.

April 20: At 5h 28 m. a.m., l.m.t., I observe Polaris at Eastern elongation; in accordance with the manual of instructions, and mark a point in the line thus determined, by a tack in a stake set 5.00 chs. N. of my station.

At 6h 30m a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}31'$ , to the W. and mark the true meridian thus determined, by driving a tack in the stake set April 19, on which the true meridian falls .0.6 ins. W. of the mark determined by the solar.

At 8h a.m., l.m.t., I set off  $11^{\circ}27'N.$  on the decl. arc;  $37^{\circ}28'N.$  on the lat. arc; and mark a point in the true meridian determined with the solar by a tack driven in the stake already set 5.00 chs. N. of my station; this mark falls 0.3 ins. W. of the mark established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for true meridians, respectively about  $0'31''$  east and  $0'16''$  west of the meridian established by the Polaris observations; therefore, I conclude that

## Subdivision of T. 38 S. R. 3 W.

Chains.

the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian, 8h a.m., is N.15°40'W.; the angle thus determined, reduced by the table, page 100 gives the mean mag. decl. 15°38'E.

I commence at the cor. of secs. 1,2,35, and 36, on the S. bdy of the T., which is a sandstone, 6x7x4 ins. above ground, set by me and heretofore described.

Thence I run

N.0°1'W. bet. secs. 35 and 36.

Ascend over W. slope of mountain, which goes to form a large hollow, drains S. into Bull Canyon.

4.25 Descend over the slope it being very broken, gulches drain S.

18.79 Top of a rather prominent ridge, bears E. and W.

31.20 Abrupt ascent through heavy timber, bears E. and W.

32.80 Top of bench, slopes to the N. and is thickly timbered with cedar and pinion pine.

36.80 Descend from bench and over land that slopes to the N.

39.20 Small wash, 9 ft. deep, 70 lks. across, drains NE.

40.00 Set a sandstone 20x8x7 ins., 14 ins. in the ground for sec. cor., marked  $\frac{1}{4}$  on W. face; from which

A pinion pine 10 ins. in diam. bears S.17°07'E. 59 lks. dist., marked  $\frac{1}{4}$  S 36 B T

A pinion pine 8 ins. in diam. bears N.47°W. 48 lks. dist., marked  $\frac{1}{4}$  S 35 B T

52.70 Descend abruptly into hollow, drains NE.

63.00 Bottom of wash and ascend slightly (wash drains NE.).

64.00 Descend over slope.

74.80 Gulch, drains NE.

76.00 Bottom of gulch.

76.50 N. side of gulch and continue along the slope.

80.00 Set a sandstone 28x10x5 ins., 21 ins. in the ground for cor. of secs. 25, 26, 35, and 36, set on a level between two small ledges, 2 ft. high, marked with 1 notch on the S. and 1 notch on the E. edges; from which

Subdivision of T. 38 S. R. 3 W.

Chains	A pinion pine 8 ins. in diameter bears S.45°50'W. 39 lks.dist.,marked T 38 S R 3 W S 35 B T A pinion pine 10 ins. in diam. bears N.49°W. 23 lks. dist.,marked T 38 S R 3 W S 26 B T A cedar 12 ins. in diam. bears N.38°E. 45 lks. dist.,marked T 38 S R 3 W S 25 B T No other trees available to mark; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land rough and mountainous. Soil, sandy loam and rocky; 2d rate and worthless. Timber, cedar and pinion pine. Brush, sage and mountain rush. Mountainous land or land heavily timbered or dense brush on 80.00 chs.
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40.00	E. on a random line bet. secs. 25 and 36. Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect the E. bdy. of the T. 12 lks. N. of the cor. 25,30,31, and 36, which is a sandstone 6x10x4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
80.40	Thence I run
80.50	N.89°55'W. on a true line bet. secs. 25 and 36. Ascend gradually through heavy timber and dense brush.
80.60	Ascend more abruptly over rough land.
80.80	Top of hill, bears N. and S., and descend gradually.
80.90	Set a sandstone 20x6x4 ins., 15 ins. in the ground for $\frac{1}{4}$ sec. cor.; marked $\frac{1}{4}$ on N. face; Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
81.00	Descend abruptly into Sheep Creek Canyon, 500 ft. deep, drains SE.
81.00	Sheep Creek, 4 ins. deep, 30 lks. wide, drains SE. along Road Cannonville to Pahreah, bears NW. and SE. W. side of canyon and ascend $\frac{1}{2}$ over broken country.
81.20	Top of ridge, bears NE. and SW.; and descend.
81.50	Bottom of gully, drains N.15°E. and ascend abruptly.
82.00	The cor. of secs. 25,26,35, and 36.

## Subdivision of T. 38 S., R. 3 W.

Chains	Land, very rough and mountainous. Soil, rocky; worthless. Timber, cedar and pinion pine, with yellow pine in the canyon. Brush, sage, mountain rush, deer, and scrub oak. Mountainous land, or land covered with heavy timber or dense brush on 80.20 chs. Cloudy; rain. Solar observations impossible.
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April 20, 1905.

April 21st, cloudy.

N. 0° 01' W. bet. secs. 25 and 26.

Ascend through heavy cedar and pinion pine timber and dense brush.

- 1.70 Top of small ledge,  $3\frac{1}{2}$  ft. high, bears E. and W.
- 3.16 Top of ridge leading into a small canyon, 60 ft. deep, with ledges on each side. Ridge bears E. and W.
- 7.90 Bottom of canyon, bears or drains N. of E.
- 14.66 Top of hill, bears E. and W.; over level land very thickly timbered.
- 28.00 Descend into a sort of hollow, 50 ft. deep, drains E. then NE.
- 37.50 Bottom of hollow and ascend.
- 40.00 Set a limestone 11x6x4 ins., 8 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked with  $\frac{1}{4}$  on W. face; from which  
A cedar 15 ins. in diam. bears W. 21 lks. dist.,  
marked  $\frac{1}{4}$  S 26 B.T  
A pinion pine 12 ins. in diam. bears S. 15° E. 11 lks. dist., marked  $\frac{1}{4}$  S 25 B.T
- 41.50 Top of hill, bears E. and W., and descend through heavy timber.
- 51.00 S. edge of ravine, 150 ft. deep, course NE., runs or drains into Willis Creek Canyon.
- 59.33 N. edge of ravine, and run along E. slope of ridge, bears E. and W. from high hill 3.00 chs. W. with cliffs 60. ft.

## Subdivision of T. 38 S., R.3 W.

Chains.	high, bears NW. and SE.
64.94	Top of ridge which is turning point of mountain and descend rather abruptly into Willis Creek Canyon. A lone butte 80x90 ft. base, 100 ft. high bears E.4.00 chs.of this point.
76.50	Edge of Willis Creek Canyon, drains SE. The cor.falls in the canyon and cannot be set, so at this point, Set a sandstone 22x8x4 ins., 21 ins.in the ground,bet. two sets of cliffs 8 ft.high, for W.C.to cor.of secs. 23,24,25, and 26, marked W C on NE.face, with 2 notches on the S. and 1 notch on the E.edge; from which A pinion pine 14 ins.in diam.bears S.64 $\frac{1}{2}$ °W. 71 lks. dist., marked W C T 38 S R 3 W S 26 B T A pinion pine 8 ins.in diam.bears S.34° 20'E. 30 lks.dist., marked W C T 38 S R 3 W S 25 B T No other trees available to mark; raise a mound of stone 2 ft.base,1 $\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
80.00	Point for cor.of secs.23,24,25, and 26 falls in canyon, cor.cannot be set. Land rough and mountainous. Soil rocky and gravelly; worthless. Timber cedar and pinion pine. Brush, sage, deer, mountain rush, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
18.00	S.89° 55'E.on a random line offset betsecs.24 and 25,from the W.C.to cor.of secs.23,24,25, and 26. Offset N.0°01'W. 3.50 chs.; thence
40.00	S.89°55'E.on a random line betsecs.24 and 25, Set temp. $\frac{1}{4}$ sec.cor.
80.18	Intersect the E:bdy.of the T.23 lks.N.of the cor.of secs.19,24,25, and 30, which is a sandstone 10x10x6

## Subdivision of T. 38 S., R. 3 W.

Chains.	ins. above ground, firmly set, marked and witnessed as described by the surveyor general. Thence I run N.89° 45'W.on a true line bet.secs.24 and 25,
	Descend through heavy cedar and pinion pine and dense brush.
8.00	Descend abruptly into small gulch, drains S.
17.00	W.side of the gulch and ascend.
20.50	Top of ridge bears N. and S.
39.00	Bottom of Sheep Creek Canyon, 300 ft. deep, drains S.
40.09	Set a sandstone 20x6x4 ins., 15 ins.in the ground for $\frac{1}{4}$ seccor., marked $\frac{1}{4}$ on N.face; from which
	A pinion pine 8 ins.in diam.bears N.10°W.109 lks. dist., marked $\frac{1}{4}$ S 24 B T
	A pinion pine 9 ins.in diam.bears S.30° E. 55 lks. dist., marked $\frac{1}{4}$ S 25 B T
41.00	Sheep Creek 15 lks.wide, 4 ins.deep, drains S.
42.00	Road from Cannonville to Pahreah bears N. and S. Ascend.
43.00	Top of ridge bears N. and S., and descend.
44.00	Ascend abruptly.
55.50	Top of hill, bears N. and S., and descend.
62.18	Offset peg on E.side of Willis Creek Canyon, from which I offset S.0°01'E. 3.50 chs. Thence I run N.89° 45'W.on offset true line.
	Descend abruptly into Willis Creek Canyon, 500 ft. deep, drains SE.
79.90	W.side of canyon.
80.18	The W.C.to cor.of secs.23,24,25, and 26. Land very rough and mountainous. Soil rocky and gravelly; worthless. Timber,cedar and pinion pine. Brush, sage, mountain rush, deer, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.18 chs.
From the true point for cor.of secs.23,24,25, and 26, 3.50 chs.N.0° 01.W.of witness cor.to cor.of secs.23, 24,25, and 26, I run N.0°01'W.bet secs.23 and 24,	

Subdivision of T.38 S. R.3 W.

Chains.	
	Over mountainous land; and descend abruptly into Willis Creek Canyon gut, 300 ft. deep from this level, drains SE.
10.50	N. edge of canyon, cliffs, 40 ft. high, bear NW. and SE. Ascend abruptly.
12.00	Top of cliffs, and enter pinion pine and cedar and brush.
21.25	Ascend slightly.
22.00	Enter a sage flat with scattering timber, cedar and pine.
23.50	Enter scattering timber and thence over ridges and hollows, drain E.
40.00	Set a sandstone 18x8x5 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 10 ins. in diam. bears S.40°W. 31 lks. dist., marked $\frac{1}{4}$ S 23 B T A pinion pine 13 ins. in diam. bears N.14°17'E. 64 lks. dist., marked $\frac{1}{4}$ S 24 B T Ascend slightly.
41.80	Top of bench, bears E. and W.; and descend gradually through scattering timber.
63.25	S. edge of hollow.
64.00	Bottom of hollow, drains E. Road to Willis Creek, bears E. and W. Ascend.
75.50	Descend abruptly into a ravine, drains E.
80.00	Set a sandstone 22x8x4 ins., 16 ins. in the ground for cor. of secs. 13,14,23, and 24, marked with 3 notches on the S. and 1 notch on the E. edges; from which A pinion pine 10 ins. in diam. bears N.2°W. 20 lks. dist., marked T.38 S R 3 W S 14 B T A cedar 13 ins. in diam. bears N.42°E. 39 lks. dist., marked T 38 S R 3 W S 13 B T A cedar 10 ins. in diam. bears S.56°10'W. 52 lks. dist., marked T 38 S R 3 W S 23 B T A pinion pine 18 ins. in diam. bears S.59 $\frac{1}{2}$ °E. 94 lks. dist., marked T 38 S R 3 W S 24 B T Land, rough and mountainous.

## Subdivision of T. 38 S. R. 3 E.

Chains.	<p>Soil, rocky, gravelly, and sandy loam; worthless and 3d rate.</p> <p>Timber, cedar and pinion pine.</p> <p>Brush, sage, deer, mountain rush, and scrub oak.</p> <p>Mountainous land or land covered with scattering timber or dense brush on 80.00 chs.</p>
40.00	<p>S. 89°45' E. on a random line bet. secs. 13 and 24.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
80.09	<p>Intersect the E. bdy. of the T. 19 lks. S. of the cor. of secs. 13, 18, 19, and 24, which is a sandstone 15x12x8ins. above ground, firmly set, marked and witnessed as described by the surveyor general.</p>
	<p>Thence I run</p>
	<p>N. 89°53' W. on a true line bet. secs. 13 and 24.</p>
	<p>Descend gradually through heavy cedar and pinion pine and dense brush.</p>
11.10	<p>Descend abruptly and leave heavy timber.</p>
12.00	<p>Descend abruptly over ledges, 20 ft. high, bear N. and S., into Sheep Creek Canyon, drains S.</p>
13.00	<p>Sheep Creek 4" deep, 15 lks. wide, drains S.</p>
15.00	<p>Road, Cannonville to Pahreah, course S.</p>
38.00	<p>Top of ledges, bear NE. and SE. Leave the canyon.</p>
39.50	<p>Enter heavy cedar and pinion pine timber, bears NE. and SE.</p>
40.04 $\frac{1}{2}$	<p>Set a sandstone 26x10x4 ins., 19 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on N. face; from which</p> <p>A cedar 12 ins. in diam. bears N. 21° E. 76 lks. dist., marked <math>\frac{1}{4}</math> S 13 E T</p> <p>A pinion pine 15 ins. in diam. bears S. 75° E. 16 lks. dist., marked <math>\frac{1}{4}</math> S 24 B T</p>
43.00	<p>Top of ridge, bears NW. and SE.</p>
44.20	<p>Dry wash, 4 ft. deep, 20 lks. wide, drains SE.</p>
54.10	<p>Top of ridge, bears NW. and SE. and descend.</p>
60.10	<p>Dry wash, 5 ft. deep, 25 lks. wide, drains SE.</p>
70.60	<p>Top of ridge, bears N. and S.; and descend abruptly.</p>
72.50	<p>Bottom of ravine, drains N?</p>

## Subdivision of T.38 S. R.5 W.

Chains.	
76.75	Top of ridge, bears N. and S.; and descend.
80.09	The cor. of secs. 13,14,23, and 24. Land, rough and mountainous. Soil, rocky and gravelly; 4th rate. Timber, cedar and pinion pine. Brush, sage, thimble-berry, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.09 chs. Cloudy, snow. Solar observations impossible.
	April 21, 1905.
	April 22d, cloudy. N.0°01'W. bet. secs. 13 and 14. Ascend through heavy cedar and pinion pine and dense brush.
7.90	Descend into hollow, drains E.
13.00	Bottom of hollow.
13.75	Ascend abruptly up N. side of hollow over small ridges.
40.00	Set a sandstone 13x6x5 ins., 9 ins. in the ground for sec. cor., marked $\frac{1}{2}$ on W. face; from which A pinion pine 18 ins. in diam. bears S.52°40'W. 54 lks. dist., marked $\frac{1}{2}$ S 14 B T No other trees available to mark; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
42.00	Bend of Indian Hollow, and turning point of hill.
46.50	Bottom of side hollow drains NE., and ascend.
47.36	Top of ridge, bears NE. and SW. and descend abruptly into Indian Hollow, drains S. of E.
52.40	Bottom of Indian Hollow, dry wash, 6 ft. deep, 20 lks. wide, drains SE. Ascend.
76.95	Top of ridge on N. side of hollow, bears NW. and SE. Descend over small hollow s, drain NE.
80.00	Set a limestone 20x8x5 ins., 15 ins. in the ground for cor. of secs. 11,12,13, and 14, marked with 4 notches on the S. and 1 notch on the E. edges; from which A cedar 6 ins. in diam. bears S.13°W. 28 lks. dist., marked T 38 S R 3 W S 14 B T

Subdivision of S.3S S. R. S. H.

Chains.

A cedar 14 ins. in diam. bears S.31°E. 59 lks. dist., marked T 38 S R 3 W S 13 E T

A pinion pine 6 ins. in diam. bears N.19°E. 17 lks. dist., marked T 38 S R 3 W S 12 E T

A pinion pine 11 ins. in diam. bears N.47°W. 18 lks. dist., marked T 38 S R 3 W S 11 E T

Land rough and hilly.

Soil, sandy loam, gravelly and rocky; 2d and 4th rate.

Timber, cedar and pinion pine.

Brush, sage, deer, thimble-berry, and scrub oak.

Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

S.89°53'E. on a random line bet. secs. 12 and 13.

40.00 Set temp.  $\frac{1}{2}$  sec. cor.

79.90 Intersect the E. bdy. of the T.10 lks. N. of the cor. of secs. 7, 12, 13, and 18, which is a sandstone 8 x 12 x 4 ins. above ground, firmly set marked and witnessed as described by the surveyor general.

Thence I run

N.89°49'W. on a true line bet. secs. 12 and 13.

Ascend over rough hill, through scattering cedar and pine and dense brush,

36.00 Top of ridge point bears E. and W. Enter heavy timber, bears SW. and NW.

34.00 Descend abruptly from hill, bears NW. and SE.

35.00 Set of sandstone 26x5x4 ins., 19 ins. in the ground for  $\frac{1}{2}$  sec. cor., not on abrupt SW. slope of hill, marked  $\frac{1}{2}$  on N. face; from which

A pinion pine 9 ins. in diam. bears S.60°E. 30 lks. dist., marked  $\frac{1}{2}$  S 13 E T

A pinion pine 12 ins. in diam. bears N.42°W. 16 lks. dist., marked  $\frac{1}{2}$  S 12 E T

Ascend over broken ground.

36.00 Top of hill, bears N.60°E. and S.60°E. at this point.

## Subdivision of T. 38 S. R. 3 W.

Chains.	Thence over level of Sheep Creek flat..Leave heavy timber, bears N. and SE.
57.50	Road to Fahreah, from Cannonville bears N. $10^{\circ}$ W. and S. $10^{\circ}$ E.
58.00	Sheep Creek wash, dry, drains S. $10^{\circ}$ E. then SE., 100 lks. wide.
63.00	Enter heavy cedar and pinion pine, bears N. and SE. Ascend abruptly.
74.50	Top of ridge, bears N. and S..Thence along N. slope of hill bears NW. and SE.
79.50	The cor. of secs. 11,12,13, and 14. Land rough and mountainous. Soil, gravel and sandy loam; 2d and 4th rate. Timber, cedar and pinion pine. Brush, sage, rabbit, grease-wood, and thimble-berry. Mountainous land or land covered with heavy timber or dense brush on 79.90 chs. Cloudy; Snow. Solar observations impossible.

April 22, 1905.

April 23, 1905, cloudy.

N. $0^{\circ}01'W.$  bet. secs. 11 and 12.

Through dense brush and heavy cedar and pinion pine.
1.00 Descend.
5.00 Bottom of a hill in a side hollow of Sheep Flat, probably Reward Hollow; dense sage, no timber.
6.00 Enter timber, bears E. and W.; and ascend over small ridges and hollows, drain E.
21.00 Ascend through timber.
24.80 Top of ridge, bears E. and W.
26.00 Descend into hollow.
30.00 Bottom of hollow, drains NE. Dense sage.
33.00 Ascend up hill.
35.30 Top of ridge, bears E. and W., from slope of main hill on W.
36.00 Descend through timber.
38.00 Bottom of ridge and enter flat.

## Subdivision of T. 38 S. R. 3' W.

Chains	
40.00	Set a sandstone 20x6x4 ins., 15 ins. in the ground for 4 sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar 11 ins. in diam. bears N. $30^{\circ}20'E.$ 56 lks. dist., marked $\frac{1}{4}$ S 12 B T A cedar 10 ins. in diam. bears N. $41^{\circ}W.$ 40 lks. dist., marked $\frac{1}{4}$ S 11 B T
40.80	Leave timber and enter sage brush flat. Dense grease-wood.
49.16	Dry wash, 13 ft. deep, course E. Enter cedar and pinion.
52.50	N. edge of wash.
66.50	Leave timber and enter sage brush flat.
75.50	Enter scattering cedar and pinion pine.
80.00	Set a limestone 24x8x4 ins., 18 ins. in the ground on the point of a small ridge in a hollow, for cor. of secs. 1, 2, 11, and 12, marked with 5 notches on the S. and 1 notch on the E. edges; from which, A pinion 16 ins. in diam. bears S. $7\frac{1}{2}^{\circ}E.$ 43 lks. dist., marked T 38 S R 3 W S 12 B T A cedar 22 ins. in diam. bears N. $29^{\circ}40'E.$ 73 lks. dist., marked T 38 S R 3 W S 1 B T No other trees available to mark; dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.; raise a mound of earth 4 ft. base, 2 ft. high W. of the cor. Land mountainous and hilly. Soil, sandy and gravelly loam; 2d and 4th rate. Timber, cedar and pinion pine. Brush, sage, grease-wood, thimble-berry, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
40.00	S. $89^{\circ}49'E.$ on a random line bet. secs. 1 and 12. Set temp. $\frac{1}{4}$ sec. cor.
80.14	Intersect the E. bdy. of the T. 7 lks. N. of the cor. of secs. 1, 6, 7, and 12, which is a sandstone 7x8x4 ins. above ground, firmly set marked and witnessed as described by the surveyor general.

## Subdivision of T. 38 S. R. 3 W.

Chains	
	Thence I run /
	N.89°46'W. on a true line bet. secs. 1 and 12.
	Over sage Flat.
3.30	Bottom of hill, and ascend abruptly; depression drains N.
4.50	Top of ridge, bears N. and S. from main hill on S. Descend abruptly.
6.50	Bottom of hill, and enter large hollow, drains NE.; leave cedar and pinion pine.
11.00	Dry wash, 4 ft. deep, 15 lks. wide, drains NE.
16.00	Ascend very abruptly 100 ft.
26.20	Ascend more gradual and enter heavy cedar and pinion pine.
35.00	Top of hill, bears NW. and SE., with branch running NE. Descend gradually.
40.47	Set a sand stone 27x8x6 ins., $2\frac{1}{2}$ ins. in the ground for sec. cor., marked $\frac{1}{4}$ on N. face; from which a cedar 19 ins. in diam. bears S.44°37'W. 37 lks. dist., marked $\frac{1}{4}$ S 12 B T
	No other trees available to mark; dig pits 18x18x12 ins., E. and W. of the cor. 3 ft. dist.; raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
	Leave timber and descend gradually over Sheep Creek Flat.
57.25	Road to Pahreah, bears N. and S.
71.63	Sheep Creek wash, dry, drains SE. Leave brush.
77.64	W. edge of wash.
80.34	The cor. of secs. 1, 2, 11, and 12.
	Land level to mountainous.
	Soil, sandy and clay loam, with gravel; 2d. and 4th rate.
	Timber, cedar and pinion pine.
	Brush, sage, rabbit, grease-wood, deer, and scrub oak.
	Mountainous land or land covered with heavy timber or dense brush on 71.69 chs.
	N.0°01'W. on a random line bet. secs. 1 and 2.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.55.	Intersect the N. bdy of the T. 5 lks.E. of the cor. of

## Subdivision of T. 38 S. R. 3 W.

Chains	secs. 1, 2, 35, and 36, set by me in the survey of the S. bdy. of T. 37 S. R. 3 W., and previously described.
	Thence I run
	S. $0^{\circ}03' E.$ on a true line bet. secs. 1 and 2.
	Through heavy timber and dense brush.
7.50	Top of hill, bears NW. and SE; and descend into Sheep Creek Flat; leave timber.
16.50	Picket fence around the field of J. Henderson, bears NW. and SE. Enter grease-wood. Road along N. side of fence.
27.25.	Wire fence, around J. Henderson's land; bears NE. and SW.
27.65	Road bet. J. Henderson's land; lane, bears NE. and SW.
28.45	Picket fence, around land of Henderson, bears NE. and SW. Thence across cultivated land of Henderson.
39.55	Set a limestone 18x8x5 ins., $1\frac{1}{4}$ ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits 18x18x12 ins., N. and S. of stone $.3$ ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of the cor.
53.10	Picket fence around Henderson's land, bears S. $20^{\circ} E.$ and N. $20^{\circ} W.$ Leave field.
60.00	N. edge of Sheep Creek wash, dry, course SE. then S., 15 ft. deep.
66.40	S. edge of wash, over level country, scattering timber and dense sage brush.
79.10	N. edge of bend of old creek bed, steep descent, 8 ft. deep.
79.55 <i>53.70</i> <i>5.85</i>	The cor. of secs. 1, 2, 11, and 12. Land, level to rolling. Soil, sandy and clay loam, and gravel; 1st, 2d, and 4th rate. Timber, scattering cedar and pinion pine. Brush, sage, grease-wood and rabbit. Mountainous land or land covered with heavy timber or dense brush on 53.70 chs. Cloudy; rain. Solar observations impossible.

April 23, 1905.

## Subdivision of T. 24 S. R. 2 E.

Chain

April 24, 1905: At 2H.58m a.m., l.m.t., I set off SW-SW'N. on the lat. arc; 12°41' W. on the decl. arc; and determine a true meridian with the solar on the S. bip. of the T. at the cor. of secs. 2, 3, 34, and 35, set by me and heretofore described.

Thence I run

N. 0°01' W. bet. secs. 34 and 35.

Ascend abruptly, through heavy cedar and pinion pine, and dense brush.

1.00

Ascend slightly along eastern slope of hill.

16.00

Descend abruptly into gulch, drains NW.

21.00

Bottom of gulch and ascend over the east slope of high hill.

40.00

Set a sandstone 24x8x5 ins., 18 ins. in the ground for sec. cor., marked 3 on S. face; from which

A pinion pine 18 ins. in diam. bears S.67°E. 74 lks. dist., marked 3 S 34 S T

A pinion pine 16 ins. in diam. bears N.86°E. 37 lks. dist., marked 3 S 35 S T

42.00

Dry wash, 6 ft. deep, 50 lks. wide, drains NW.

47.00

Descend gradually to Bull Valley Canyon.

50.67

Edge of cliff point running into Bull Canyon cut, 150 ft. deep, drains SW.

79.00

R. edge of Bull Canyon cut and descent.

80.00

Set a sandstone 24x10x6 ins., 18 ins. in the ground for cor. of secs. 25, 27, 34, and 35, marked with 1 notch on the S. and 2 notches on the N. edges; from which

A pinion pine 10 ins. in diam. bears N.68°E. 75 lks. dist., marked T 38 S R 3 S S 26 S T

A pinion pine 14 ins. in diam. bears N.12°E. 76 lks. dist., marked T 38 S R 3 S S 27 S T

A pinion pine 13 ins. in diam. bears S.11°E. 76 lks. dist., marked T 38 S R 3 S S 24 S T

A pinion pine 15 ins. in diam. bears S.16°E. 77 lks. dist., marked T 38 S R 3 S S 25 S T

## Subdivision of T. 38 S. R. 3 W.

	Chains.	Land, rough and mountainous.
		Soil, very rocky and gravelly; worthless.
		Timber, cedar and pinion pine, with yellow pine in canyon.
		Brush, sage, deer, mountain rush, and scrub oak.
		Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
		April 24: At this point I set off $12^{\circ}50'N.$ on the decl. arc, and at 11h 58m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}29'$ .
		East., on a random line bet. secs. 26 and 35.
40.00		Set temp. $\frac{1}{4}$ sec. cor.
79.92		Intersect the N. and S. line 38 lks. S. of the cor. of secs. 25, 26, 35, and 36. Thence I run
		$S.89^{\circ}44'W.$ on a true line bet. secs. 26 and 35. Ascend abruptly through heavy cedar and pinion pine and dense brush.
15.00		Top of plateau, bears E. and W.; heavily timbered.
39.96		Set a sandstone $24 \times 10 \times 3$ ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinion pine 10 ins. in diam. bears $N.52^{\circ}E.$ 30 lks. dist., marked $\frac{1}{4}$ S 26 B T
		A pinion pine 8 ins. in diam. bears $S.26\frac{1}{2}^{\circ}E.$ 49 lks. dist., marked $\frac{1}{4}$ S 35 B T
59.00		Descend very abruptly from plateau, bears NW. and SE. Leave heavy timber.
78.10		Bottom of large ravine forming a part of Bull Canyon, drains S. into the canyon gut.
79.92		The cor. of secs. 26, 27, 34, and 35. Land mountainous to level. Soil, gravelly, rocky, and sandy; 4th rate and worthless. Timber, cedar and pinion pine. Brush, sage, deer, mountain rush and scrub oak. Mountainous land or land covered with heavy timber or

## Subdivision of T. 38 S., R. 3 E.

chains.

dense brush on 79.92 chs,

N.0°01'W. bet. secs. 26 and 27.

Ascend abruptly through heavy cedar and pinion pine and dense brush.

Along side of large ravine.

20.00 Top of rocky hill, bears NW. and SE; leave Bull Canyon and descend gradually through very heavy timber.

40.00 Set a sandstone 22x8x4 ins., 16 ins. in the ground for sec. cor., marked  $\frac{1}{4}$  on W. face; from which

A cedar 9 ins. in diam. bears N.70°E. 15 lks.

dist., marked  $\frac{1}{4}$  S 26 B T

A cedar 8 ins. in diam. bears S.14°W. 16 lks.

dist., marked  $\frac{1}{4}$  S 27 B T

60.00 Descend more abruptly into swale, drains NE. Ascend.

69.00 Descend gradually.

80.00 Set a sandstone 26x6x5 ins., 19 ins. in the ground for cor. of secs. 22, 23, 26, and 27, marked with 2 notches on the S. and 2 notches on the E. edges; from which

A cedar 4 ins. in diam. bears N.56.2°E. 61 lks.

dist., marked T 38 S R 3 W S 23 B T

A pinion pine 6 ins. in diam. bears N.67°W. 12 lks.

dist., marked T 38 S R 3 W S 22 B T

A cedar 10 ins. in diam. bears S.70°E. 20 lks.

dist., marked T 38 S R 3 W S 27 B T

A cedar 10 ins. in diam. bears S.23°E. 28 lks.

dist., marked T 38 S R 3 W S 26 B T

Land rolling and mountainous.

Soil, rocky and gravelly; 4th rate and worthless.

Timber, cedar and pinion pine.

Brush, sage, scrub oak, and mountain rush.

Mountainous land or land heavily timbered or covered with dense brush on 80.00 chs.

Cloudy; rain. Solar observations impossible.

April 24, 1905.

## Subdivision of T. 38 S., R. 3 W.

Chains.	April 25, 1905, cloudy.
	N. $89^{\circ}44' E.$ on a random line bet. secs. 23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
71.90	S. $0^{\circ}01' E.$ on an offset 3.50 chs.; thence N. $89^{\circ}44' E.$
79.90	Intersect the N. and S. line 25 lks. N. of the W.C. to cor. of secs. 23, 24, 25, and 26.
	Thence I run
	S. $89^{\circ}55' W.$ on an offset line bet. secs. 23 and 26.
	Descend abruptly.
.25	Dry wash, 4 ft. deep, 30 lks. wide, in bottom of gulch, drains
	N. Ascend abruptly through heavy cedar and pine and dense brush.
8.00	Offset peg, from which I offset N. $0^{\circ} 01' W.$ to true line line, 3.50 chs. dist.
	Thence I run
	S. $89^{\circ}55' W.$ on a true line bet. secs. 23 and 26.
	Ascend abruptly over very rough ground on S. side of Willis Creek Canyon.
15.00	Top of Mountain, bears NW. and SE.
25.00	Descend gradually.
39.95	Set a sandstone 22x6x4 ins., 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar 28 ins. in diam. bears N. $65^{\circ} E.$ 21 lks. dist., marked $\frac{1}{4}$ S 23 B T A cedar 15 ins. in diam. bears S. $32^{\circ} W.$ 10 lks., dist., marked $\frac{1}{4}$ S 26 B T
44.08	Bottom of gulch, drains N. and ascend abruptly.
46.00	Top of ridge, bears N. and S., and descend abruptly into gulch, 70 ft. deep, drains N. into canyon.
48.10	Bottom of gulch and ascend abruptly; gulch drains N.
50:50	Leave gulch and ascend gradually.
69.90	Bottom of swale, drains NE.; and ascend abruptly.
72.00	Ascend gradually.
79.90	The cor. of secs. 22, 23, 26, and 27. Land, very rough and mountainous.

Subdivision of T. 38 S. R. 3 W.

Chains.

- Soil, gravelly and rocky; 4th rate and worthless.  
 Timber, cedar and pinion pine.  
 Brush, deer, sage, thimble-berry, scrub oak, and mountain rush.  
 Mountainous land or land covered with heavy timber or dense brush on 79.90 chs.

N.0°01'W. bet. secs. 22 and 23.

Descend gradually through heavy cedar and pinion pine, and dense brush.

- 11.00 Descend very abruptly into Willis Creek Canyon, course SE.
- 20.20 Willis Creek Canyon gut, 75 ft. deep, 25 lks, wide, course NE. then turns SE. Stream of water in bottom, 2 ins. deep, 25 lks. wide, course easterly.
- 26.50 Ascend abruptly.
- 40.00 Set a sandstone 24x8x5 ins., 1 $\frac{1}{2}$  ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; from which  
     A pinion pine 12 ins. in diam. bears N.27°W. 25 lks. dist., marked  $\frac{1}{4}$  S 22 B T  
     A pinion pine 5 ins. in diam. bears N.50°E. 28 lks. dist., marked  $\frac{1}{4}$  S 23 B T
- 41.30 Top of hill, bears NW. and SE., and leave Willis Creek Canyon.
- 61.00 Descend very abruptly into gulch.
- 65.50 Bottom of gulch, drains NE. Road to Willis Creek, bears NE. and SW. Ascend abruptly.
- 72.50 Top of point of ridge, bears E. and W., and descend.
- 73.50 Bottom of gully, drains E., and ascend abruptly.
- 76.50 Top of ridge, bears E. and W., and descend abruptly into Averett Canyon or hollow, drains SE.
- 80.00 Set a sandstone 26x10x6 ins., 19 ins. in the ground for cor. of secs. 14, 15, 22, and 23, marked with 3 notches on the S. and 2 notches on the E. edges; from which  
     A pinion pine 11 ins. in diam. bears N.18 $\frac{3}{4}$ °E. 48 lks. dist., marked T 38 S R 3 W S 14 B T

## Subdivision of T. 38 S. R. 3 W.

Chains.

A cedar 18 ins. in diam. bears E. 16°W. 38 lks.

dist., marked T 38 S R 3 W S 15 B T

A pinion pine 9 ins. in diam. bears N. 80 $\frac{1}{2}$ °W. 7 lks.

dist., marked T 38 S R 3 W S 22 B T

A cedar 15 ins. in diam. bears S. 60 $\frac{1}{2}$ °E. 11 lks.

dist., marked T 38 S R 3 W S 23 B T

Land rough and mountainous.

Soil, sandy, gravelly, and rocky; 3rd and 4th rate.

Timber, cedar and pinion pine, with yellow pine.

Brush, deer, sage, mountain rush, thimble-berry, and scrub oak.

Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

N. 89°55' E. on a random line bet. secs. 14 and 23.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.91 Intersect the N. and S. line 15 lks. N. of the cor. of secs. 13, 14, 23, and 24.

Thence I run

N. 89°59' W. on a true line bet. secs. 14 and 23.

Ascend abruptly through heavy timber and brush.

1.40 Top of ridge, bears N. and S. from main hill on S.  
3.00 Hollow drains northerly.

7.00 Top of hill, bears NWesterly and SWesterly.

30.00 Descend along the S. slope of hill.  
31.50 Hollow, drains south.

33.80 Top of ridge, bears N. and S. and descend abruptly.

39.95 Set a sandstone 20x5x4 ins., 15 ins. in the ground for  
sec. cor., marked  $\frac{1}{4}$  on N. face; from which

A pinion pine 14 ins. in diam. bears S. 71°E. 15 lks.

dist., marked  $\frac{1}{4}$  S 23 B T

A cedar 12 ins. in diam. bears N. 20°E. 75 lks.

dist., marked  $\frac{1}{4}$  S 14 B T

45.00 Hollow drains southerly.  
54.00 Top of ridge, bears N. and S. and descend abruptly over  
gypsum ledges into Averett Canyon.

## Subdivision of T. 38 S., R. 3 N.

Chains.	
75.00	Bottom of canyon, drains SE. then S. Ascend abruptly over gypsum ledges, bear NW. and SE.
76.50	Top of ledges and ascend abruptly.
79.91	The cor. of secs. 14, 15, 22, and 23. Land, rough and mountainous. Soil, sandyloam and gravelly with gypsum; 4th rate and worthless.
	Timber, cedar and pinion pine.
	Brush, sage, deer, mountain rush, scrub oak and thimbleberry.
	Mountainous land or land heavily timbered or covered with dense brush on 79.91 chs.
	Cloudy; snow. Solar observations impossible.

April 25, 1905.

April 26: At 7h 28m a.m. l.m.t., I set off  $13^{\circ}27'N.$  on the decl. arc;  $37^{\circ}30'$  on the lat. arc; and determine a true meridian with the solar at the cor. of secs. 14, 15, 22, and 23.

Thence I run

$N.0^{\circ}01'W.$  bet. secs. 14 and 15.

Descend abruptly through heavy cedar and pinion pine and dense brush.

4.70 Descend abruptly over gypsum ledges, 40 ft. high, bear NW. and SE.

5.25 Bottom of wash in bottom of Averett canyon, 4 ft. deep, 50 lks. wide, drains SE.

7.00 Ascend abruptly over point, over gypsum ledge.

15.50 Top of point and descend abruptly over gypsum.

16.50 Bottom of gully, course SW. and ascend abruptly.

17.30 Top of point, bears NE. and SW. and descend abruptly.

21.00 Bottom of gully, drains SW., and ascend abruptly.

28.82 Top of ridge, bears NE. and SW., and descend.

30.00 Bottom of shallow gully, drains SW.

36.12 Top of brow of hill, 400ft. high, and ascend gradually.

## Subdivision of T. 38 S. R. 3 W.

Chains.

40.00	Set a sandstone 23x6x5 ins., 17 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 20 ins. in diam. bears N. $85^{\circ}$ E. 8 lks. dist., marked $\frac{1}{4}$ S 14 B T A pinion pine 18 ins. in diam.. bears S. $40^{\circ}$ W. 37 lks. dist., marked $\frac{1}{4}$ S 15 B T
65.50	Top of hill, bears E. and W. and descend gradually.
72.00	Bottom of hill.
74.50	Ascend abruptly.
77.50	Top of hill, bears E. and W., and descend.
80.00	Set a limestone 24x10x8 ins., 18 ins. in the ground for cor. of secs. 10,11,14, and 15, marked with 4 notches on the S. and 2 notches on the E. edges; from which A pinion pine 10 ins. in diam. bears N. $42^{\circ}$ E. 54 lks. dist., marked T 38 S R 3 W S 11 B T A pinion pine 11 ins. in diam. bears N. $33\frac{3}{4}$ W. 244 lks. dist., marked T 38 S R 3 W S 10 B T A cedar 10 ins. in diam. bears S. $80\frac{1}{2}$ W. 50 lks. dist., marked T 38 S R 3 W S 15 B T A cedar 14 ins. in diam. bears S. $20\frac{3}{4}$ E. 62 lks. dist., marked T 38 S R 3 W S 14 B T
	Land rough and mountainous.
	Soil, gypsum, sandy, and gravelly; 4th rate and worthless.
	Timber, cedar and pinion pine.
	Brush, sage, thimble-berry, deer, mountain rush, and oak.
	Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
40.00	S. $89^{\circ}59'$ E. on a random line bet. secs. 11 and 14. Set temp. $\frac{1}{4}$ sec. cor.
79.95	Intersect the N. and S. line at the cor. of secs. 11,12, 13, and 14. Thence I run

Subdivision of T. 38S. R. 3 W.

Chains.	N. $89^{\circ}59'W.$ on a true line bet. secs. 11 and 14.
	Ascend abruptly through heavy cedar and pinion pine and brush.
7.00	Ascend gradually.
13.00	Top of high hill, bears NW. and SE., and descend abruptly 200 ft.
31.50	Bottom of Indian hollow, drains SE., and ascend abruptly along N. side of a tributary gulch, drains E.
39.97 <sup>1/2</sup>	Set a sandstone 24x6x4 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which, A pinion pine 10 ins. in diam. bears N. $15^{\circ}E.$ 92 lks. dist., marked $\frac{1}{4}$ S 11 B T A cedar 26 ins. in diam. bears S. $38^{\circ}W.$ , 32 lks. dist., marked $\frac{1}{4}$ S 14 B T
47.50	Descend abruptly.
49.00	Cross to S. side of gulch and ascend abruptly.
54.00	Descend abruptly.
58.50	Ascend along N. side of hollow.
67.00	Leave gulch or hollow and ascend gradually.
79.95	The cor. of secs. 10, 11, 14, and 15. Land, rough and mountainous. Soil, sandy and gravelly loam; 4th rate. Timber, cedar and pinion pine. Brush, sage, deer, mountain rush, and thimble-berry. Mountainous land or land covered with heavy timber or dense brush on 79.95 chs.
	N. $0^{\circ}01'W.$ bet. secs. 10 and 11. Over top of hill through heavy timber and dense brush.
9.50	Descend abruptly into Indian hollow, drains SE.
25.50	Bottom of hill and enter scattering timber.
26.50	Dry wash, 10 ft. deep, 70 lks. wide, drains SE.
32.00	Ascend abruptly out of hollow.
40.00	Top of hill, bears S. $60^{\circ}E.$ and N. $60^{\circ}W.$

## Subdivision of T. 38 S. R. 3 W.

Chains.	Set a sandstone 18x10x5 ins., 12 ins. in the ground for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar 16 ins. in diam. bears N.58°E. 50 lks. dist., marked $\frac{1}{4}$ S 11 B T A pinion pine 10 ins. in diam. bears S.52°W. 64 lks. dist., marked $\frac{1}{4}$ S 10 B T Descend abruptly.
45.00	Bottom of hill and ascend abruptly.
49.00	Top of hill, 300 ft. high, and descend gradually along W. end of hill, bears E. and W.
65.00	Over bench on hill top, bears E. and W.
80.00	Set a sandstone 26x10x4 ins., 19 ins. in the ground for cor. of secs. 2,3,10, and 11, marked with 5 notches on the S. and 2 notches on the E. edges; from which A pinion pine 9 ins. in diam. bears N.72°E. 58 lks. dist., marked T 38 S R 3 W S 2 B T A pinion pine 12 ins. in diam. bears N.65°40'W.79 lks. dist., marked T 38 S R 3 W S 3 B T A cedar 14 ins. in diam. bears S.13°W. 72 lks. dist., marked T 38 S R 3 W S 10 B T A pinion pine 10 ins. in diam. bears S.59°30'E. 45 lks. dist., marked T 38 S R 3 W S 11 B T Land, mountainous to nearly level.
	Timber, cedar and pinion pine
	Soil, sandy, and gravelly loam, and rocky; 4th rate and worthless.
	Brush, deer, sage, mountain rush, and scrub oak.
	Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
	Cloudy; rain. Solar observations impossible.
	April 26, 1905.
	April 27, 1905, cloudy. S.89°59'E. on a random line bet. secs. 2 and 11.

## Subdivision of T.38 S., R.3 E.

Chains.	
40.00	Set temp. 1 sec. cor.
79.95	Intersect the N. and S. line 10 lks. N. of the cor. of secs. 1, 2, 11, and 12. Thence I run N.89°55'W. on a true line bet. secs. 2 and 11.
	Ascend gradually through dense brush.
11.00	Ascend abruptly, crosses stream, and enter heavy cedar and pinion pine, bears N. and S.
18.00	Top of hill, 150 ft. high, bears NW. and SE.
20.00	Descend abruptly to small valley, drains SE.
30.00	Foot of hill, and leave timber.
35.00	Enter heavy cedar and pinion pine and ascend gradually.
39.971	Set a sandstone 24x10x4 ins., 18 ins. in the ground for 1 sec. cor., marked 1 on N. face; from which A pinion pine 10 ins. in diam. bears S.28°W. 62 lks. dist., marked 1 S 11 B T A cedar 28 ins. in diam. bears N.48°E. 34 lks. dist., marked 1 S 2 B T
45.10	Top of ridge, bears NW. and SE.; and descend abruptly.
47.25	Dry wash, 12 ft. deep, 25 lks. wide, drains S.
48.30	Dry wash, 16 ft. deep, drains SE.
51.00	W. side of wash and ascend very gradually.
79.95	The cor. of secs. 2, 3, 10, and 11. Land, rolling to hilly. Soil, sandy and gravelly, 2d and 4th rate. Timber, cedar and pinion pine. Brush, sage, deer, mountain rush, and scrub oak. Heavily timbered or dense brush on 79.95 chs.
	N.0°01'W. on a random line bet. secs. 2 and 3.
40.00	Set temp. 1 sec. cor.
79.65	Intersect the N. bdy. of the T. at the cor. of secs. 2, 3, 34, and 35, set by me in the survey of the S. bdy. of

## Subdivision of T. 38 S. R. 3 E.

Chains

T. 37 S. R. 3 E. and previously described.

Thence I run

S. 6°01'E. on a true line, bet. secs. 2 and 3.

Descend.

3.50 Foot of hill, and leave pine and cedar, and descend gradually through oak and sage brush, on Sheep Flat.

6.00 Road, bears E. and NW.

9.60 Sheep Creek Wash, small stream of water, 3 ins. deep, 3 lks. wide, course SE.

26.00 Foot of hill, and ascend abruptly. Enter heavy timber.

33.50 Top of hill, bears SE. and NW., and descend, abruptly, into gulch, course SE.

34.50 Bottom of gulch and ascend abruptly.

37.60 Top of main hill, bears NW. and SE.; and descend gradually.

39.65 Set a sandstone 20x10x5 ins., 15 ins. in the ground for 3 sec. cor., marked  $\frac{1}{4}$  on W. face; from which

A piñon pine 16 ins. in diam. bears N. 82° E. 50 lks. dist., marked  $\frac{1}{4}$  S 2 B T

A cedar 23 ins. in diam. bears S. 64° W. 38 lks. dist., marked  $\frac{1}{4}$  S 3 B T

43.50 Top of ridge, bears NW. and SE. and descend gradually.

53.60 Leave timber, bears SE. and SW., and enter brush flat.

60.70 Enter timber, bears NE. and NW.

79.65 The cor. of secs. 2, 3, 10, and all.

Land, level to hilly.

Soil, sandy loam and gravelly; 2d and 4th rate.

Timber, cedar and piñon pine.

Brush, sage, scrub oak, rabbit, deer, and thimble-berry.

Mountainous land or land covered with heavy timber or dense brush on 79.65 chs.

Cloudy; snow. Solar observations impossible.

April 27, 1906.

April 28: At 3h 57m p.m., l.m.t., I set off 14°11'W. on the decl. arc; 37°28'N. on the lat. arc; and determine a true

## Subdivision of T.38 S. R.3 W.

Chains.

meridian with the solar at the cor. of secs. 3,4,33, and 34, on the S. bdy. of the T., which was set by me and heretofore described.

Thence I run

N.0°02'W. bet. secs. 33 and 34.

Along bottom of canyon, drains NE, through heavy cedar and yellow pine and dense brush.

- 2.00 Ascend up cliffs, 15 ft. high. Leave Yellow pine.
- 2.40 Top of cliffs, and ascend gradually. Enter scattering cedar and pinion pine.
- 16.75 Descend abruptly into canyon, 85 ft. deep, drains E. & NE.
- 18.60 Bottom of canyon and ascend abruptly.
- 20.50 Top of ledge and ascend gradually.
- 24.50 Descend gradually.
- 40.00 Set a sandstone 20x10x6 ins., 15 ins. in the ground for sec. cor., marked  $\frac{1}{4}$  on W. face; from which  
A pinion pine 8 ins. in diam. bears N.65°E.  $46\frac{1}{2}$  lks.  
dist., marked  $\frac{1}{4}$  S 34 B T  
A cedar 20 ins. in diam. bears W. 15 lks. dist.,  
marked  $\frac{1}{4}$  S 33 B T
- 40.50 Descend abruptly along W. slope of hill.
- 53.30 Foot of hill and cross a branch of Bull Valley Canyon,  
drains NE.
- 60.00 Ascend abruptly over rough mountain side.
- 67.85 Across head of gully with ledges perpendicular, 30 ft. high.
- 72.45 Top of ledges, bears E. and W. Ascend gradually over mountain top. Enter heavy pinion pine and cedar.
- 80.00 Set a sandstone 24x8x6 ins., 18 ins. in the ground for cor. of secs. 27,28,33, and 34, marked with 1 notch on the S. and 3 notches on the E. edges; from which  
A cedar 16 ins. in diam. bears N.27 $\frac{3}{4}$ °E.  $51\frac{1}{2}$  lks.  
dist., marked T 38 S R 3 W S 27 B T  
A cedar 7 ins. in diam. bears N.15 $\frac{1}{2}$ °W.  $29\frac{1}{2}$  lks. dist.,  
marked T 38 S R 3 W S 28 B T  
A pinion pine 30 ins. in diam. bears S.74°W.  $56\frac{1}{2}$

## Subdivision of T. 38 S. R. 3 W.

Chains:

lks. dist., marked T 38 S R 3 W S 33 B T

A pinion pine 30 ins. in diam. bears S.33°E. 60 lks.

dist., marked T 38 S R 3 W S 34 B T

Land rough and mountainous.

Soil, gravelly and rocky; worthless.

Timber, cedar, pinion pine, and yellow pine.

Brush, sage, deer, mountain rush, scrub oak, and grapevine.

Mountainous land or land covered with heavy timber or dense brush, on 80.00 chs,

April 28, 1905.

April 29: At 7h 57m a.m., l.m.t., I set off  $14^{\circ}24'N.$  on the decl. arc;  $37^{\circ}29'N.$  on the lat. arc, and determine a true meridian with the solar, at the cor. of secs. 27, 28, 33, and 34.

Thence I run

E. on a random line bet. secs. 27 and 34.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.90 Intersect the N. and S. line 14 lks. S. of the cor. of secs. 26, 27, 34, and 35.

Thence  $\frac{1}{4}$  runS.  $89^{\circ}54'W.$  on a true line bet. secs. 27 and 34.

Over mountainous land on NE. slope of Bull Valley Canyon.

4.80 Top of point of ridge, bears N.  $16^{\circ}E.$  and S.  $10^{\circ}W.$ 

15.00 Descend abruptly into Bull Valley Canyon gut, 600 ft. deep, drains SE.

28.00 W. side of canyon and ascend abruptly, through timber.

39.95 Set a sandstone 30x12x4 ins., 22 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face; from whichA pinion pine 22 ins. in diam. bears S.  $5^{\circ}W.$  13 lks. dist., marked  $\frac{1}{4}$  S 34 B TA pinion pine 12 ins. in diam. bears N.  $10^{\circ}E.$  103 lks. dist., marked  $\frac{1}{4}$  S 27 B T

54.00 Top of point of ridge, bears N. and S. from mountain on the S. Descend abruptly into gulch, 200 ft. deep, drains

## Subdivision of T. 36 S. R. 3 E.

chains.	
	NE.
57.00	Bottom and ascend abruptly along N. side.
60.00	Top of ridge, bears N. and W.
62.00	Descend abruptly from ridge.
65.00	Ascend abruptly.
79.50	Ascend more gradual and leave gulch.
79.90	The cor. of secs. 27, 28, 33, and 34. Land rough and mountainous. Soil, gravel and rocks; worthless. Timber, cedar and pinion pine. Brush, sage, deer, scrub oak and mountain rush. Mountainous land or land covered with heavy timber or dense brush on 79.90 chs.

	N. 0°02'W. bet. secs. 27 and 28.
27.85	Descend gradually through heavy cedar and pinion pine, and dense brush.
30.90	Descend abruptly over ledges 30 ft. high, into gulch, 100 ft. deep, drains NE.
32.85	Bottom of gulch.
36.75	Ascend abruptly out of gulch.
40.00	Top of ridge and descend along NW. slope of high hill.
	Set a sandstone 20x8x6 ins., 15 ins. in the ground for sec. cor., marked $\frac{1}{2}$ on W. face; from which
	A pinion pine 14 ins. in diam. bears N. 47° E. 43° lks. dist., marked $\frac{1}{2}$ S 28 E T.
	A pinion pine 20 ins. in diam. bears N. 13° lks. dist., marked $\frac{1}{2}$ S 27 E T.
45.00	Bull Valley Canyon, gut, 50 lks. wide, bottom not visible but about 400 ft. deep, drains N.
49.29	Ascend abruptly.
53.50	Top of hill, bears NW. and SW., leave canyon.
75.00	Descend into small swale or hollow, drains S. then SW.
80.00	Set a sandstone 28x6x4 ins., 21 ins. in the ground for cor. of secs. 21, 22, 27, and 28, marked with 2 notches on

## Subdivision of T. 38 S. R. 3 W.

Chains.	the S. and 3 notches on the E. edges; from which A cedar 24 ins. in diam. bears N. 27° E. 38 lks. dist. marked T 38 S R 3 W S 22 B T A cedar 26 ins. in diam, bears N. 85° W. 16 lks. dist., marked T 38 S R 3 W S 21 B T A pinion pine 12 ins. in diam. bears S. 80° W. 16 lks. dist., marked T 38 S R 3 W S 28 B T A pinion pine 14 ins. in diam. bears S. 40° E. 38 lks. dist., marked T 38 S R 3 W S 27 B T Land, rough and mountainous. Soil, gravel and rocks; 4th rate and worthless. Timber, cedar and pinion pine. Brush, sage, deer, mountain rush, thimble-berry, and oak. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
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40:00	N. 89° 54' E. on a random line bet. secs. 22 and 27. Set temp. $\frac{1}{4}$ sec. cor.
79.95	Intersect the N. and S. line 28 lks. N. of the cor. of secs. 22, 23, 26, and 27. Thence $\frac{1}{4}$ run N. 89° 54' W. on a true line bet. secs. 22. and 27.
11.00	Ascend through heavy timber and dense brush. Descend gradually over broken country.
19.00	E. side of gulch, 100 ft. deep, drains N.
23.50	W. side of gulch.
26:90	Descend abruptly into gulch, 75 ft. deep, drains N.
28.00	W. side of gulch.
39.97 $\frac{1}{2}$	Set a sandstone 18x7x5 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinion pine 12 ins. in diam. bears S. 70° E. 9 lks. dist., marked $\frac{1}{4}$ S 27 B T A pinion pine 16 ins. in diam. bears N. 30° W. 29 lks. dist., marked $\frac{1}{4}$ S 22 B T

## Subdivision of T.38 S. R.3 W.

Chains	
41.50	Descend abruptly into gully, 45 ft. deep, drains N. then NE.
47.15	Top of ridge, bears N. and S.
49.75	Hollow drains northerly.
54.00	Top of ridge, bears NE. and SW.
79.95	The cor. of secs. 21, 22, 27, and 28. Land, rough and broken. Soil, sandy and gravelly; 4th rate. Timber, cedar and pinion pine. Brush, sage, deer, mountainrush, and scrub oak. Mountainous land or land covered with timber or dense brush on 79.95 chs.
	N.0°02'W. bet. secs. 21 and 22.
	Ascend through heavy cedar and pinion pine and brush.
5.00	Top of sand ridge, bears E. and W. Descend abruptly into large hollow.
25.00	Bottom of hollow, drains E. then NE. Ascend abruptly.
27.00	Top of ridge of hill, bears E. and W. Very heavy cedar and pinion pine.
38.00	Descend into hollow, drains E. from the NW.
40.00	Set a sandstone 25x18x5 ins., $\frac{1}{4}$ ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S on W. face; from which A cedar 12 ins. in diam. bears N.45°E. 16 lks. dist., marked $\frac{1}{4}$ S 22 B T A pinion pine 8 ins. in diam. bears N.40°W. 15 lks. dist., marked $\frac{1}{4}$ S 21 B T
43.00	Ascend abruptly.
45.00	Top of ridge on W. slope of hill, and descend gradually.
50.50	Descend abruptly 100 ft. to Willis Creek valley.
61.00	Willis Creek wash, 3 ft. deep, 60 lks. wide, small stream of good water, 40 lks. wide, 3 ins. deep, course SE. Leave timber.
64.00	Road to Thompson's ranch on the creek, bears E. and W.
68.00	Enter heavy cedar and pinion pine and ascend abruptly.
79.00	Top of hill, bears NW. and SE.

## Subdivision of T. 38 S. R. 3 W.

Chains

80.00.

Set a sandstone 18x6x5 ins., 12 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked with 3 notches on the S. and 3 notches on the E. edges; from which

A pinion pine 8 ins. in diam. bears N. $83\frac{1}{2}$ E. 79 lks. dist., marked T 38 S R 3 W S 15 B T

A cedar 26 ins. in diam. bears N. $19^{\circ}21'W.$  47 lks. dist., marked T 38 S R 3 W S 16 B T

A pinion pine 18 ins. in diam. bears S. $72\frac{1}{2}W.$  42 lks. dist., marked T 38 S R 3 W S 21 B T

A cedar 13 ins. in diam. bears S. $40\frac{1}{4}E.$  58 lks. dist., marked T 38 S R 3 W S 22 B T

Land, hilly to mountainous.

Soil, sandy and gravelly; 2d and 4th rate.

Timber, cedar and pinion pine.

Brush, sage, mountain rush, scrub oak, and deer.

Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

Cloudy. Solar observations impossible. April 29, 1905.

April 30, cloudy.

S. $89^{\circ}54'W.$  on a random line bet. secs. 15 and 22.

40.00

Set temp.  $\frac{1}{4}$  sec. cor.

80.18

Intersect the N. and S. line 11 lks. N. of the cor. of secs. 14, 15, 22, and 23.

Thence  $\frac{1}{4}$  run

N. $89^{\circ}49'W.$  bet. secs. 15 and 22 on a true line.

Ascend abruptly along rough S. side of Averett canyon; through heavy timber and dense brush.

Top of hill, enter very heavy cedar and pinion pine.

Leave canyon.

40.09

Set a sandstone 22x8x6 ins.,  $\frac{1}{6}$  ins., in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face; from which

A cedar 12 ins. in diam. bears N. $15^{\circ}E.$  28 lks. dist., marked  $\frac{1}{4}$  S 15 B T

A pinion pine 13 ins. in diam. bears S. $42^{\circ}W.$  23 lks.

## Subdivision of T.38 S. R.3 W.

Chains.	
	dist., marked $\frac{1}{4}$ S 22 B T
48.00	Ascend abruptly, 90 ft.
55.00	Top of highest point of hill and descend gradually.
80.18	The cor. of secs. 15, 16, 21, and 22. Land rolling to mountainous. Soil, sandy and gravelly; 2d and 4th rate. Timber, cedar and pinion pine. Brush, sage, rabbit, deer, mountain rush, and scrub oak. Mountainous land or land covered with heavy timber or dense brush on 80.18 chs.

April 30: At 9h 57m a.m., l.m.t., I set off  $39^{\circ}30' N.$  on the lat. arc;  $14^{\circ}44' N.$  on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 15, 16, 21, and 22.

Thence I run

$N.0^{\circ}02' W.$  bet. secs. 15 and 16.

Through scattering timber and dense brush.

5.00	Leave scattering timber, bears E. and W.
10.00	Enter heavy cedar and pinion pine, bears E. and W.
15.00	Descend abruptly from hill, bears NW. and SE.
22.00	Foot of ridge and ascend abruptly.
25.00	Top of ridge, bears E. and W.
27.00	Descend very abruptly into main gulch of Averett canyon, 350 ft. deep, drains SE.
32.50	Ascend very abruptly, along W. side of cove.
40.00	Set a sandstone 24x6x4 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face: from which A pinion pine 16 ins. in diam. bears S. $55^{\circ} W.$ 34 lks. dist., marked $\frac{1}{4}$ S 16 B T
	A cedar 22 ins. in diam. bears S. $51^{\circ} E.$ 43 lks.
	dist., marked $\frac{1}{4}$ S 15 B T
47.00	Top of backbone of ridge, bears N. and S. Ascend over broken country.
77.00	Top of ridge, bears E. and W.

## Subdivision of T. 38 S. R. 3 W.

Chains.	
79.00	Bottom of small hollow, drains E., and ascend abruptly.
80.00	Set a sandstone 16x10x6 ins., 12 ins. in the ground for cor. of secs. 9,10,15, and 16, marked with 4 notches on the S. and 3 notches on the E. edges; from which A pinion pine 9 ins. in diam. bears S. $44\frac{1}{4}$ °E. 45 lks. dist., marked T 38 S R 3 W S 15 B T A cedar 20 ins. in diam. bears N. $55^{\circ}$ E. 95 lks. dist., marked T 38 S R 3 W S 10 B T A pinion pine 8 ins. in diam. bears N. $74^{\circ}$ W. 92 lks. dist., marked T 38 S R 3 W S 9 B T A pinion pine 8 ins. in diam. bears S. $28^{\circ}$ W. 157 lks. dist., marked T 38 S R 3 W S 16 B T Land, rough and mountainous to rolling. Soil, sand and gravel; 2d rate and worthless. Timber, cedar and pinion pine. Brush, sage, rabbit, scrub oak, and mountain rush. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs. April 30: At this point I set off $14^{\circ}45'$ N. on the decl. arc, and at 11h, 57m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}31'$ , which is the correct lat. verynearly.
40.00	S. $89^{\circ}49'$ E. on a random line bet. secs. 10 and 15. Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect the N. and S. line 11 lks. S. of the cor. of secs. 10,11,14, and 15. Thence I run N. $89^{\circ}54'$ W. on a true line bet. secs. 10 and 15. Descend gradually along brow of high hill, through heavy cedar and pinion pine and brush.
6.00	Descend abruptly.
8.00	Foot of hill and ascend gradually along gentle slope.
40.05	Set a sandstone 24x10x6 ins., 18 ins. in the ground for

## Subdivision of T.38 S. R3 W.

Chains.	sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar 11 ins. in diam. bears N.55°E. 62 lks. dist., marked $\frac{1}{4}$ S 10 B T A cedar 15 ins. in diam. bears S.32°E. 95 lks. dist., marked $\frac{1}{4}$ S 15 B T
65.00	Top of hill, bears NE. and SW.; and descend.
70.00	Descend abruptly into head of cove, drains S.
76.00	Bottom of cove and ascend abruptly.
80.10	The cor. of secs. 9,10,15, and 16. Land rolling to mountainous. Soil, sand and gravel; 2d and 4th rate. Timber, cedar and pinion pine. Brush, sage, deer, scrub oak, mountain rush, and rabbit. Mountainous land or land covered with heavy timber or dense brush on 80.10 chs.
	N.0°02'W. bet. secs. 9 and 10. Ascend through heavy cedar and pine and dense brush. .55 Cedar 40 ins. in diam. on line; mkd 2 notches on N. & S. sides 1.00 Top of hill, bears SE. and SW. then NW.; over plateau. 4.50 Leave heavy timber. 12.50 Enter heavy cedar and pinion pine, bears E. and W. 20.00 Leave heavy timber. Averett Peak, bears W. about 20.00 chs. Elevation 500 ft. above plateau. 27.00 Enter heavy cedar and pine, bears E. and W. 32.00 Leave timber, bears SE. and SW. 37.00 Enter heavy cedar and pine, bears E. and W. 40.00 Set a sandstone 16x10x8 ins., 11 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar 14 ins. in diam. bears N.54°E. 21 lks. dist., marked $\frac{1}{4}$ S 10 B T A cedar 10 ins. in diam. bears S.52°W. 67 lks. dist., marked $\frac{1}{4}$ S 9 B T 46.94 Descend abruptly along E. side of deep gulch, 350ft. deep, drains NE. into main gulch, drains E

## Subdivision of T. 38 S. R. 5 W.

Chains.

- 49.50 Bottom of gulch, drains NE. Ascend very abruptly, 350 ft.
- 61.54 Top of ridge, bears E. and W. from main hill on W.  
Descend abruptly 350 ft.
- 65.00 Foot of hill, Indian Hollow, drains SE.
- 70.00 Dry wash, 8 ft. deep, 75 lks. wide, drains SE.
- 71.00 Ascend abruptly 350 ft.
- 80.00 Top of point of hill, bears NW. and SE.  
Set a sandstone 24x8x6 ins., 18 ins. in the ground for  
cor. of secs. 3,4,9, and 10; marked with 5 notches on the  
S. and 3 notches on the E. edges; from which  
A pinion pine 18 ins. ins. in diam. bears N.  $33\frac{1}{4}$ °W.  
56 lks. dist., marked T 38 S R 3 W S 4 B T  
A cedar 8 ins. in diam. bears N.  $36\frac{3}{4}$ °E. 58 lks.  
dist., marked T 38 S R 3 W S 3 B T  
A pinion pine 14 ins. in diam. bears S.  $82\frac{1}{2}$ °W. 76  
lks. dist., marked T 38 S R 3 W S 9 B T  
A cedar 12 ins. in diam. bears S.  $80\frac{1}{2}$ °E. 73 lks.  
dist., marked T 38 S R 3 W S 10 B T  
Land rough and mountainous.  
Soil, sandy and gravelly loam and rocky; 3d rate and  
worthless.  
Timber, cedar and pinion pine.  
Brush, sage, deer, rabbit, and mountain rush, some oak.  
Mountainous land or land heavily timbered or covered  
with dense brush on 80.00 chs.  
Cloudy; rain. Solar observation impossible.

April 30, 1905.

May 1: Cloudy. Solar observation impossible.

- 40.00 S.  $89^{\circ}54'$ E. on a random line bet. secs. 3 and 10.  
Set temp. sec. cor.
- 79.95 Intersect the E. and S. line 12 lks. S. of the cor. of  
secs. 2,3,10, and 11.  
Thence I run  
N.  $89^{\circ}59'$ W. on a true line bet. secs. 3 and 10.

## Subdivision of T. 38 S. R. 3 W.

Chains.	Ascend slightly through heavy cedar and pinion pine and dense brush.
14.00	Top of hill, bears N. and S. here. Descend.
25.00	Small valley, drains SE.
29.00	Ascend gradually.
39.97 <sup>1</sup>	Set a sandstone 14x10x6 ins., 9 ins. in the ground for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A cedar 14 ins. in diam. bears N.38°E. 29 lks. dist., marked $\frac{1}{4}$ S 3 B T A cedar 10 ins. in diam. bears S.65°E. 34 lks. dist., marked $\frac{1}{4}$ S 10 B T
49.50	Descend rather abruptly from high hill, bears NW. and SE.
54.00	Ascend gradually.
70.00	Descend along N. edge of Indian Hollow.
79.95	The cor. of secs. 3, 4, 9, and 10 Land, rolling to hilly. Soil, sandy and gravelly loam; 2nd and 4th rate. Timber, cedar and pinion pine. Brush, sage, rabbit, mountain rush, and scrub oak. Land heavily timbered or covered with dense brush on 79.95 chs.
	N.0902'W. on a random line bet. secs. 3 and 4.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.45	Intersect the N. bdy. of the T. 5 lks. E. of the cor. of secs. 3, 4, 33, 34, set by me in the survey of the S. bdy. of T. 37 S. R. 3 W., and previously described. Thence I run
	S.0°0.4'E. on a true line bet. secs. 3 and 4. Through heavy timber and dense brush.
1.50	Leave swale and timber, bears NE. and NW. over Sheep Creek Flat.
12.00	Enter heavy cedar and pinion pine and ascend gradually.
15.00	Ascend abruptly, 100 ft.
21.00	Top of hill, bears Easterly and NW. Over nearly level

## Subdivision of T. 38 S. R. 3 E.

Chains.	hill top.
39.45	Set a sandstone 22x8x6 ins., 16 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar 16 ins. in diam. bears N. 20° W. 50 lks. dist., marked $\frac{1}{4}$ S 4 B T A cedar 11 ins. in diam. bears N. 80° E. 94 lks. dist., marked $\frac{1}{4}$ S 3 B T Over fairly level hill, through heavy timber.
79.45	The cor. of secs. 3, 4, 9, and 10. Land, level to hilly. Soil, sand and gravelly loam; 2d and 3d rate. Timber, cedar and pinion pine. Brush, sage, deer, rabbit, mountainrush, and scrub oak. Land heavily timbered or covered with dense brush on 79.45 chs. Cloudy; rain. Solar observations impossible.
	May 1, 1905.

May 2: At 8h 57m a.m., l.m.t., I set off 37°28' N. on the lat. arc; 15°19' N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the T., which was set by me and heretofore described. Thence I run

N. 0°03' W. bet. secs. 32 and 33.

1.00	Ascend abruptly through cedar and pinion pine and brush, Top of ridge, bears NE. and SW.; and descend abruptly 200 ft. into gulch, drains E. then NE.
3.35	Seep springs in dry wash, drains E. then NE. Ascend abruptly.
7.40	Ascend more gradual.
9.85	Top of ridge of hill, bears NW. and SE, at this point. Descend abruptly along SE. slope of hill.
17.90	Bottom of hollow, drains Easterly from NW. Ascend abruptly

## Subdivision of T. 38 S. R. 3 W.

Chains.	along W. side of high hill.
23.80	Top of ridge, bears NW. and SE.; descend gradually along rolling hill top.
40.00	Set a sandstone 20x8x4 ins., 15 ins. in the ground for 4 sec. cor., marked 4 on W. face; from which A pinion pine 10 ins. in diam. bears S.87°E. 8 lks. dist., marked 4 S 33 B T A pinion pine 10 ins. in diam. bears N.60°W. 52 lks. dist., marked 4 S 32 B T
48.00	Foot of hill.
51.83	Dry wash in bottom of a branch of Bull Valley Canyon, 15 ft. deep, drains E. Ascend abruptly 250 ft. over gypsum.
56.30	Top of point of hill descend abruptly into gully.
56.00	Bottom of gully, drains SE. Ascend abruptly over gypsum and sandstone ledges, bear NW. and SE.
70.00	Top of hill, bears NW. and SE.; and descend gradually along edge of gypsum ledges 25 ft. high, on E. side of gulch, drains N.
80.00	Set a sandstone 30x14x5 ins., 22 ins. in the ground for cor. of secs. 28, 29, 32, and 33, marked with 1 notch on the S. and 4 notches on the E. edges; from which A pinion pine 9 ins. in diam. bears N.70°E. 23 lks. dist., marked T 38 S R 3 W S 28 B T A pinion pine 10 ins. in diam. bears N.80°W. 61 lks. dist., marked T 38 S R 3 W S 29 B T A pinion pine 20 ins. in diam. bears S.48°W. 63 lks. dist., marked T 38 S R 3 W S 32 B T A pinion pine 17 ins. in diam. bears S.50°E. 28 lks. dist., marked T 38 S R 3 W S 33 B T
	Land rough and mountainous.
	Soil, sand and gravel, with gypsum; 4th rate and worthless.
	Timber, cedar and pinion pine.
	Brush, sage, deer, scrub oak, and thimble-berry.
	Mountainous land or land covered with heavy timber or

## Subdivision of T. 38 S. R. 3 E.

Chains	dense brush on 80.00 chs.
	E. on a random line bet. secs. 28 and 33.
40.00	Set temp. sec. cor.
79.90	Intersect the N. and S. line at the cor. of secs. 27, 28, 33, and 34.
	Thence I run
	W. on a true line bet. secs. 28 and 33.
	Descend gradually through heavy cedar and pinion pine and dense brush.
22.00	Descend more abruptly into the head of a large hollow, drains NE.
38.50	W. side of hollow; thence over nearly level hill top.
39.00	Trail from Cannonville to Swallow Park, bears N. and S.
39.95	Set a sandstone 24x6x4 ins., 18 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on N. face; from which
	A pinion pine 18 ins. in diam. bears S.72 lks.
	dist., marked $\frac{1}{4}$ S 33 B T
	A cedar 22 ins. in diam. bears N.10°E. 83 lks.
	dist., marked $\frac{1}{4}$ S 28 B T
78.50	Top of small ridge, bears N. and S.; and descend gradual.
79.90	The cor. of secs. 28, 29, 32, and 33.
	Land hilly to nearly level hill top.
	Soil, sandy and gravelly loam and rocky; 3d rate and worthless.
	Timber, cedar and pinion pine.
	Brush, sage, scrub oak, thimble-berry, and mountain rush.
	Land covered with heavy timber or dense brush on 79.90 chs.
	N.0°03'W. bet. secs. 28 and 29.
	Descend through heavy timber and dense brush.
7.60	Descend abruptly along NW. slope of high hill, bears NE. and S. Leave heavy timber.
11.00	Small hollow; ascend.
13.51	Top of ridge, bears NW. and SE. Descend abruptly.
16.50	Hollow drains NW.
19.61	Top of ridge bears NW. and SE. Descend abruptly.

## Subdivision of T.38 S. R.3 W.

Chains	
26.19	Top of ridge, bears NW. and SE. Descend abruptly 250 ft.
33.80	Bottom of S. branch of Bull Valley Canyon, drains NE.; small stream of poisonous water, 4 ins. deep, 5 lks. wide. Ascend very abruptly over gypsum and sandstone.
40.00	Set a limestone 20x10x6 ins., 15 ins. in the ground, on very steep side hill, for 4 sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 6 ins. in diam. bears S.50°E. 48 lks. dist., marked $\frac{1}{4}$ S 28 B T A pinion pine 6 ins. in diam. bears N.55°W. 50 lks. dist., marked $\frac{1}{4}$ S 29 B T
42.46	Top of ridge, bears SE. and NW., and descend.
43.00	Descend very very abruptly into gully, 75 ft. deep, drains E.
46.00	N. side of gully. Over gypsum.
50.00	Top of small ridge, bears E. and W. from top of hill on W. Descend very abruptly 150 ft. over very rough country with gypsum outcrops.
60.00	Wash in bottom of branch gully of Bull Canyon, drains NE. Ascend very abruptly 150 ft. over cliffs.
63.00	Top of ridge, bears NE. and SW. Descend very abruptly.
67.80	Descend very abruptly into N. branch of Bull Canyon, 200 ft. deep, drains SE.
72.75	Wash in bottom of canyon. Seeps of poisonous water. Ascend very abruptly over gypsum ledges out of canyon.
80.00	Set a limestone 18x10x4 ins., 12 ins. in the ground on abrupt side of canyon, for cor. of secs. 20, 21, 28, and 29, marked with 2 notches on the S. and 4 notches on the E. edges; from which A cedar, 24 ins. in diam. bears N.69°E. 21 lks. dist., marked T.38 S R 3 W S 21 B T A pinion pine 9 ins. in diam. bears N.18°W. 64 lks. dist., marked T.38 S R 3 W S 20 B T No other trees available to mark; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

## Subdivision of T. 38 S. R. 3 W.

Chains

Land, very rough and mountainous.  
 Soil, sand and gypsum; worthless.  
 Timber, cedar and pinion pine, with a few yellow pine.  
 Brush, sage, deer, scrub oak, and mountain rush.  
 Mountainous land or land covered with heavy timber or  
 dense brush on 80.00 chs.  
 Cloudy; rain and snow. Solar observations impossible.

May 2:1905.

May 3: Cloudy; snow. Solar observations impossible.

East, on a random line bet. secs. 21 and 28.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.10 Intersect the N. and S. line 25 lks. S. of the cor. of  
secs. 21, 22, 27, and 28.  
Thence I run  
S.  $89^{\circ}49'W.$  on a true line bet. secs. 21 and 28.  
Ascend abruptly through heavy cedar and pine and brush.
- 1.50 Top of ridge of hill, bears N. and S. Thence along S.  
slope of nearly level hill top.
- 30.46 Descend abruptly into gully, 50 ft. deep, 100 lks. wide,  
drains S. and SE.
- 40.05 Set a sandstone, 20x10x5 ins., 15 ins. in the ground for  
sec. cor., marked  $\frac{1}{4}$  on N. face; from which  
A pinion pine 20 ins. in diam. bears N.  $5^{\circ}E.$  5 lks.  
dist., marked  $\frac{1}{4}$  S 21. B T  
A cedar 8 ins. in diam. bears S.  $40^{\circ}E.$  12 lks. dist.  
marked  $\frac{1}{4}$  S 28 B T  
Descend along N. side of Bull Valley Canyon over very  
rough ground. Gypsum.
- 80.10 The cor. of secs. 20, 21, 28, and 29.  
Land rolling to mountainous.  
Soil, sand and gypsum; 4th rate and worthless.  
Timber, cedar and pinion pine.  
Brush, sage, mountain rush, deer, thimble-berry, and oak.  
Mountainous land or land covered with heavy timber or

## Subdivision of T. 38 S. R. 3 E.

Chains.	
	dense brush on 80.10 chs.
	N.0°03'W. bet secs. 20 and 21. Ascend abruptly out of Bull Valley Canyon through heavy cedar and pine and dense brush.
2.00	Top of knoll and ascend more gradual.
5.50	Top of ridge, bears NW. and SE., and cross on to W. slope of cove.
13.00	Head of gully, drains SW. Ascend very abruptly.
32.90	Top of main hill, 500 ft. above the surrounding country, bears NW. and SE. Leave Bull Canyon. Enter very heavy cedar and pinion pine bears E. and NW. Descend gradually into large hollow, drains E. then NE.
40.00	Set a limestone .22x10x6 ins., 16 ins. in the ground for 1 sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 7 ins. in diam. bears S.70°E. 36 lks. dist., marked $\frac{1}{4}$ S 21 B T A pinion pine 10 ins. in diam. bears S.40°W. 22 lks. dist., marked $\frac{1}{4}$ S 20 B T
53.30	Leave hollow, ground nearly level.
62.80	Leave heavy timber, bears NW. and SE.
64.90	Enter heavy cedar and pinion pine, bears E. and W.
75.55	Descend very abruptly 350 ft. into Willis Creek Valley.
80.00	Abrupt side hill. Set a sandstone 26x10x4 ins., 19 ins. in the ground for cor. of secs. 16,17,20, and 21, marked with 3 notches on the S. and 4 notches on the E. edges; from which A pinion pine 18 ins. in diam. bears S.28°E. 19 lks. dist., marked T 38 S R 3 W S 21 B T A pinion pine 10 ins. in diam. bears S.10°W. 54 lks. dist., marked T 38 S R 3 W S 20 B T No other trees available to mark; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high E. of cor. Pits impracticable. Land rough and mountainous. Soil, sandy, gravelly and rocky; 4th rate and worthless. Timber, cedar and pinion pine, a few yellow pine.

## Subdivision of T.38 S. R.5 W.

Chains.

Brush, sage, mountain rush, and scrub oak.

Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

N. 89°49' E. on a random line bet. secs. 16 and 21.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.88 Intersect the N. and S. line 28 lks. N. of the cor. of secs. 15,16,21, and 22.

Thence I run

N. 89°59' W. on a true line bet. secs. 16 and 21.

Descend abruptly 200 ft. along N. side of Willis Creek Valley.

34.00 Dry wash, 20 ft. deep, drains SE.; run along its bank.

36.00 Foot of hill and enter Willis Creek Valley. Leave heavy cedar and pine.

37.30 Road to Thompson's ranch, bears NW. and SE.

38.00 Along N. bank of Willis Creek.

39.94 Set a sandstone 28x8x4 ins., 21 ins. in the ground for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{4}$  on N. face; dig pits 18x18x12 ins., E. and W. of the cor. 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of the cor.

43.00 Bend of Willis Creek Wash, drains SE.

43.85 SW. side of the bend.

55.25 Wire fence, bears N. and S., surrounds a detached piece of Thompson's ranch. Land has been under cultivation but is now abandoned.

59.00 Willis Creek wash, brush fence, bears NW. and SE., and leave Thompson's land.

60.00 E. side of creek wash, drains E., then SE., contains a small stream of pure water, 2ins. deep, 20 lks. wide. Through dense willows and brush.

70.00 Ascend and enter cedar and pinion pine.

74.00 Top of ridge, bears N. and S. from hill on S. Thence along abrupt slope of hill.

79.88 The cor. of secs. 16,17,20, and 21.

## Subdivision of T. 38 S. R. 3 W.

Chains.	<p>Land, level to mountainous.</p> <p>Soil, gravelly, sandy, and a sort of clay loam in valley;</p> <p>4th and 2d rate.</p> <p>Timber, cedar and pinion pine.</p> <p>Brush, sage, rabbit, willow, and scrub oak.</p> <p>Mountainous land or land covered with heavy timber or dense brush on 79.88 chs.</p> <p>Cloudy; snow. Solar observations impossible. May 3, 1905.</p>
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May 4: Cloudy. Solar observations impossible.

N. 0°03'W. bet. secs. 16 and 17.

Descend abruptly through dense brush and scattering cedar and pinion pine and yellow pine.

4.00 Bottom of hill and over level of Willis Creek Flat.

8.25 Willis Creek, 50 lks. wide, 4 ft. deep, contains a small stream of good water, 2 ins. deep, 20 lks. wide, drains SE.

10.80 Road to Thompson's ranch bears NW. and SE.

14.00 Foot of hill and ascend abruptly 250 ft. Leave yellow pine.

23.00 Top of hill, bears NW. and SE.; enter very heavy cedar and pinion pine.

40.00 Set a sandstone 18x10x6 ins., 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; from which  
A pinion pine 12 ins. in diam. bears S. 32°W. 30 lks.  
dist., marked  $\frac{1}{4}$  S 17 B T

A cedar 14 ins. in diam. bears S. 70°E. 45 lks.

dist., marked  $\frac{1}{4}$  S 16 B T

49.50 Descend abruptly into gully, 30 ft. deep, drains NE.

51.50 N. side of gully.

63.25 Descend very abruptly 250 ft. to Averett hollow or canyon.

76.00 Wash in the bottom of Averett canyon, drains SE.

80.00 Set a sandstone 18x10x8 ins., 12 ins. in the ground for cor. of secs. 8, 9, 16, and 17, marked with 4 notches on the S. and 4 notches on the E. edges; from which  
A cedar 18 ins. in diam. bears S. 81°W. 139 lks.

## Subdivision of T. 38 S. R. 3 W.

Chains	<p>dist., marked T 38 S R 3 W S 17 B T</p> <p>A pinion pine 10 ins. in diam. bears N. 74°W. 138 lks. dist., marked T 38 S R 3 W S 8 B T</p> <p>A cedar 20 ins. in diam. bears N. 101°E. 93 lks. dist., marked T 38 S R 3 W S 9 B T</p> <p>No other trees available to mark; dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of the cor.</p> <p>Land mountainous.</p> <p>Soil, sandy and gravelly loam; 2d and 4th rate.</p> <p>Timber, cedar and pinion pine with few yellow pine.</p> <p>Brush, sage, deer, scrub oak, mountain rush, and thimbleberry.</p> <p>Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.</p>
40.00	S. 89°59' E. on a random line bet. secs. 9 and 16. Set temp. $\frac{1}{4}$ sec. cor.
79.89	Intersect the N. and S. line 16 lks. N. of the cor. of secs. 9, 10, 15, and 16.
	Thence I run
	N. 89°52' W. on a true line bet. secs. 9 and 16.
	Ascend over mountainous country through heavy timber and dense brush.
10.20	Top of ridge, bears E. and W.
20.50	Ascend abruptly.
32.00	Top of ridge, bears NW. and SE., and descend.
39.94 $\frac{1}{2}$	Edge of Averett canyon.
	Set a sandstone 20x10x10 ins., 15 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on N. face; Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
	Descend very abruptly over cliffs, bear NW. and SE.
	Scattering cedar and pinion pine.
57.90	Bottom of hill. Over level but broken ground.
60.00	Dry wash, 5 ft. deep, 40 lks. wide, drains SE.

## Subdivision Of T. 38 S. R. 3 W.

Chains.	
79.89	<p>The cor. of secs. 8,9,16, and 17.      Land, mountainous to level but broken.      Soil, gravel, and sandy loam; worthless and 2d rate.      Timber, cedar and pinion pine.      Brush, sage, rabbit, mountain rush, and scrub oak.      Mountainous land or land covered with heavy timber or dense brush on 79.89 chs.</p>
	<p>N.0°03'W. bct. secs. 8 and 9.      Through heavy cedar and pinion pine and dense brush.      Dry wash, 10 ft. deep, 50 lks. wide, drains SE. Ascend.      Top of sand ridge, 50 ft. high, bears SE. and NW. Descend.      Set a sandstone 18x10x5 ins., 12 ins. in the ground for sec. cor., marked <math>\frac{1}{4}</math> on W. face; from which          A pinion pine 16 ins. in diam. bears N.45°W. 2 lks.          dist., marked <math>\frac{1}{4}</math> S 8 B T          A pinion pine 13 ins. in diam. bears N.70°E. 51 lks. dist., marked <math>\frac{1}{4}</math> S 9 B T          Ascend abruptly 150 ft.</p>
48.21	<p>Top of ridge bears E. and W. from main ridge turns SE., and descend into head of gulch, 100 ft. deep, drains E. and SE.</p>
55.79	<p>Top of ridge, bears E. and W.; and descend into a branch of Averett canyon, 150 ft. deep, drains SE.</p>
66.82	<p>N. side of gulch and descend gradually to flat.</p>
69.00	<p>Leave heavy timber, bears E. and W. Enter sage flat.</p>
80.00	<p>Set a limestone 20x8x6 ins., 15 ins. in the ground for cor. of secs. 4,5,8, and 9, marked with 5 notches on the S. and 4 notches on the E. edges; from which          A cedar 10 ins. in diam. bears S.28<math>\frac{1}{2}</math>°W. 247 lks.          dist., marked T 38 S R 3 W S 8 B T          A pinion pine 9 ins. in diam. bears S.15<math>\frac{1}{2}</math>°E. 215 lks. dist., marked T 38 S R 3 W S 9 B T          A cedar 14 ins. in diam. bears N.62<math>\frac{1}{2}</math>°E. 284 lks.          dist., marked T 38 S R 3 W S 4 B T</p>

## Subdivision of T. 38 S. R. 3 W.

Chains.

No other trees available to mark; dig pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of the Cor.  
 Land. mountainous to level.  
 Soil, gravelly, rocky, and sandy loam; worthless and 3d rate  
 Timber, cedar and pinion pine.  
 Brush, sage, rabbit, scrub oak, deer, and mountain rush.  
 Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.  
 Cloudy; rain. Solar observations impossible.  
 May 4, 1905.

	S.89°52'E. on a random line bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect the N. and S. line 21 lks. S. of the cor. of secs. 3,4,9, and 10. Thence I run
	S.89°59'W. on a true line bet. secs. 4 and 9. Descend abruptly 250 ft. into Averett canyon through heavy timber and dense brush.
18.20	Bottom of canyon, drains SE.
27.00	Dry wash, drains SE. Ascend along S. side of canyon.
38.90	Top of ridge, bears N. and S. Descend abruptly.
39.80	Bottom of gulch, drains N. and NE. Ascend abruptly.
39.98	Set a sandstone 24x10x6 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which: A pinion pine 18 ins. in diam. bears N.50°E. 37 lks. dist., marked $\frac{1}{4}$ S 4 B T A pinion pine 6 ins. in diam. bears S.45°W. 30 lks. dist., marked $\frac{1}{4}$ S 9 B T
40.50	Top of hill, bears N.80°W. then NW. and SE. Very heavy cedar and pinion pine.
41.00	Over level hill top.
60.00	Descend gradually from hill, bears NW. and SE.
79.96	The cor. of secs. 4,5,8, and 9.

Subdivision of T. 38 S. R. 3 E.

Chains.	<p>Land, mountainous to rolling.</p> <p>Soil, sandy and gravelly loam; 3d and 4th rate.</p> <p>Timber, cedar and piñon pine.</p> <p>Brush, sage, rabbit, deer, scrub oak, and mountain rush.</p> <p>Mountainous land or land covered with heavy timber or dense brush on 79.96 chs.</p>
	N. 0°03'W. on a random line bet. secs. 4 and 5.
40.00	Set temp. 1 sec. cor.
79.40	Intersect the N. bdy. of the T. 3 lks. E. of the cor. of secs. 4, 5, 32, and 33, Set by me in the survey of the S. bdy. of T. 37 S. R. 3 W. and previously described.
	May 5: At this point I set off 16°14'N. on the decl. arc, and at 11h 57m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°33'.
	Thence I run
	S. 0°04'E. on a true line bet. secs. 4 and 5.
	Through heavy timber and dense brush.
6.00	Descend abruptly, 75 ft. into gulch, drains E. then NE.
10.00	Bottom and ascend abruptly.
13.00	Top of ridge, bears NE. and SW., and descend abruptly into head of gulch, 100 ft. deep drains NE.
15.00	Ascend abruptly.
18.50	Leave gulch and enter heavy cedar and piñon pine.
26.50	Top of ridge, bears NW. and SE.
27.50	Descend abruptly over cliffs, 100 ft. high, into head of gulch, drains SW.
32.00	Ascend abruptly.
34.50	Top of ridge on W. slope of hill. Descend gradually along the slope.
39.40	Set a sandstone 28x10x5 ins., 21 ins. in the ground for sec. cor., marked 1 on W. face; from which A piñon pine 10 ins. in diam. bears N. 9°E. 44 lms. dist., marked 1 S. 5 B T A cedar 12 ins. in diam. bears S. 56°E. 63 lms.

## Subdivision of T. 38 S. R. 3 W.

Chains.	dist., marked $\frac{1}{4}$ S 4 B T
48.50	Wash, 16 ft. deep, 12 lks. wide, drains SE.
66.00	Top of ridge, bears E. and W., and descend into hollow drains SE.
69.00	Foot of hill, 250 ft. high, ascend abruptly.
73.50	Top of hill, bears NW. and SE. Descend gradually.
79.40	The cor. of secs. 4, 5, 8, and 9.  Land mountainous.  Soil, sand and gravelly; 4th rate and worthless.  Timber, cedar and pinion pine.  Brush, sage, rabbit, deer, scrub oak, and mountain rush.  Mountainous land or land covered with heavy timber or dense brush on 79.40 chs.
	May 5, 1905.

May 7: At 7h 56m a.m., l.m.t., I set off  $16^{\circ}45'N.$  on the decl. arc;  $37^{\circ}28'$  on the lat. arc and determine a true meridian with the solar at the cor. of secs. 5, 6, 31, and 32, on the S. bdy. of the T., set by me and heretofore described..

Thence I run

N:  $0^{\circ}03'W.$  bet. secs. 31 and 32.

Ascend through heavy timber and dense brush.

2.80 Top of small ridge, bears N. and SW. Ascend gradually over large hill.

37.00 Descend gradually.

40.00 Set a sandstone 22x10x5 ins., 17 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  ON W. face; from which  
A pinion pine 10 ins. in diam. bears N.  $70^{\circ}E.$  22 lks.  
dist., marked  $\frac{1}{4}$  S. 32 B T

A cedar 8 ins. indiam. bears N.  $42^{\circ}W.$  44 lks. dist.,  
marked  $\frac{1}{4}$  S. 31 B T

65.00 Bottom of S. fork of Bull Valley Canyon, drains NE.

66.50 Ascend abruptly along E. slope of point.

## Subdivision of T. 38 S. R. 3 W.

Chains.	
80.00	<p>Set a sandstone 24x10x5 ins., 18 ins. in the ground, on very steep slope of ridge, bearing N. and S. from main hill on the N., for cor. of secs. 29, 30, 31, and 32, marked with 1 notch on the S. and 5 notches on the E. edges; from which</p> <p>A pinion pine 9 ins. in diam. bears N. 70°W. 29 lks. dist., marked T 38 S R 3 W S 30 B T</p> <p>A pinion pine 7 ins. in diam. bears S. 20°E. 50 lks. dist., marked T 38 S R 3 W S 32 B T</p> <p>No other trees available to mark; raise a mound of stone 2 ft. base, <math>1\frac{1}{2}</math> ft. high W. of cor. Pits impracticable.</p> <p>Land, mountainous.</p> <p>Soil, gravel and rocky; worthless.</p> <p>Timber, cedar and pinion pine.</p> <p>Brush, sage, rabbit, mountain rush, deer, and scrub oak.</p> <p>Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.</p>
40.00	<p>East on a random line bet. secs. 29 and 32.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
79.91	<p>Intersect the N. and S. line 17 lks. S. of the cor. of secs. 28, 29, 32, and 33.</p>
.30	<p>May 7: At this point I set off <math>16^{\circ}48'N.</math> on the decl. arc, and at 11h <math>56\frac{1}{2}m</math> a.m., l.m.t., observe the sun on the meridian, the resulting lat. is <math>37^{\circ}29'</math>.</p> <p>Thence I run</p> <p>S. <math>89^{\circ}53'W.</math> on a true line bet. secs. 29 and 32.</p>
11.20	<p>Through heavy timber and dense brush.</p>
25.00	<p>Descend abruptly over gypsum ledges into head of gulch, 90 ft. deep, drains N.</p>
35.00	<p>W. side of gulch, thence over heavily timbered hill top.</p>
39.95 $\frac{1}{2}$	<p>Ascend gradually along N. slope of hill.</p> <p>Leave heavy timber, bears N. and S.</p> <p>Set a sandstone 26x8x4 ins., 19 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{2}</math> on N. face; from which</p>

## Subdivision of T. 38 S. R. 3 W.

Chains.	
	A cedar 20 ins. in diam. bears N. 45°W. 8 lks. dist. marked $\frac{1}{4}$ S 29 B T
	A pinion pine 9 ins. in diam. bears S. 45°W. 14 lks dist., marked $\frac{1}{4}$ S 32 B T
40.50	Descend abruptly 200 ft. into S. fork of Bull Canyon.
57.00	Bottom of canyon, drains NE. Seeps of poisonous water.
	Ascend abruptly along slope on N. side of canyon.
79.91	The cor. of secs. 29, 30, 31, and 32. Land, rough and mountainous. Soil, gravel, sand, and gypsum; worthless. Timber, cedar and pinion pine. Brush, sage, deer, mountain rush, and scrub oak. Mountainous land or dense brush or land covered with heavy timber on 79.91 chs.

	W. on a random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.80	Intersect the Emery Valley Guide Meridian 10 lks S. of the cor. of secs. 25, 30, 31, and 36, set by me and here-tofore described.
	Thence I run S. 89°56'E. on a true line bet. secs. 30 and 31.
	Through very heavy timber and dense brush and over hill top.
38.80	Set a sandstone 20x8x4 ins., 14 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on N. face; dig pits 18x18x12 ins., E. and W. of the cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ high N. of cor.
	Descend abruptly into gulch, 100 ft. deep, drains SE.
	Bottom of gulch and ascend.
78.30	Top of ridge, bears N. and S. Descend abruptly.
78.80	The cor. of secs. 29, 30, 31, and 32. Land, mountainous to level, Soil, gravel; 4th rate. Timber, pinion pine and cedar.

## Subdivision of E. 30 S. R. 2 T.

Chains.

Brush, sage, deer, mountain rush, thimble-berry, and oak.  
 Mountainous land or land covered with heavy timber or  
 dense brush on 78.80 chs.  
 Cloudy; rain. Solar observations impossible.

May 7, 1928.

	May 8; Cloudy; snow. Solar observations impossible. N.0°03'W. bet. secos. 29 and 30.
10.00	Ascend abruptly along side of ridge, through heavy brush. Top of hill, bears NE. and SW.; enter very heavy cedar and pinion pine timber. Descend gradually.
24.50	Bottom of hollow or gulch, drains Nusterly. Ascend abruptly 150 ft. over gypsum ledges.
40.00	Set a sandstone 25x12x8 ins., 18 ins. in the ground for sec. cor., marked 4 on W. face; from which A cedar 26 ins. in diam. bears S.48°E. 29 lbs. dist., marked 4 S 29 B T A pinion pine 10 ins. in diam. bears S.46°W. 70 lbs. dist., marked 4 S 30 BT
47.00	Top of hill; enter very large cedars, bear N. and S.
56.00	Descend abruptly along point of hill. Gulch 300 ft. deep, drains E. Leave large cedars. Continue through heavy cedar and pine.
65.00	Bottom of gulch and ascend abruptly.
79.70	Large boulder on line, 10x10x8 ft.
80.00	Set a sandstone 16x14x6 ins., 11 ins. in the ground for cor. of secos. 19, 20, 29, and 30, marked with 3 notches on the S. and 5 notches on the E. edges; from which A pinion pine 8 ins. in diam. bears N.141°W. 55 lbs. dist., marked T 38 S R 3 W 320 B T A pinion pine 8 ins. in diam. bears N.74°W. 45 lbs. dist., marked T 38 S R 3 S 3 19 B T A pinion pine 8 ins. in diam. bears S.37°E. 57 lbs. dist., marked T 38 S R 3 W 3 30 B T A cedar 30 ins. in diam. bears S.45°E. 5 lbs. dist.,

## Subdivision of T. 38 S. R. 3 E.

Chains

marked T 38 S R 3 W S 29, B T

Land mountainous.

Soil, gravel; worthless.

Timber, giant cedar and pinion pine.

Brush, sage, mountain rush, deer, scrub oak, and thimbleberry.

Mountainous land or land heavily timbered or covered with dense brush on 80.00 chs.

The line bet. secs. 20 and 29 cannot be run on account of the very rough and impassable country; but a signal erected at the cor. of secs. 20, 21, 28, and 29, bears N. 89°54' E. from a point 1.00 chs. E. of the cor. of secs. 19, 20, 29, and 30. The distance shown on plat is proportioned between the nearest adjacent lines.

N. 89°56' W. on a random line bet. secs. 19 and 30.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

78.70 Intersect the Emery Valley Guide Meridian at the cor. of secs. 19, 24, 25, and 30, set by me and heretofore described.

Thence I run

S. 89°56' E. on a true line bet. secs. 19 and 30.

Through dense brush.

19.50 Foot of hill and ascend abruptly, 150 ft. Enter heavy cedar and pinion pine.

32.80 Top of ridge, on N. side of mountain, bears NW. and SE., Descend along S. side of gulch, drains SE.

38.70 Set a sandstone 28x8x8 ins., 21 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{2}$  on N. face; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of the cor. Pits impracticable.59.75 Bottom of gulch and ascend abruptly.  
70.00 Small hollow drains SE.

78.70 The cor. of secs. 19, 20, 29, and 30.

Land, level to mountainous.

Soil, sandy loam, gravelly and rocky; 2d rate and worthless.

## Subdivision of T.38 S. R.3 W.

Chains

Timber, cedar and pinion pine.  
 Brush, sage, rabbit, deer, scrub oak, mountain rush, and thimble-berry.  
 Mountainous land or land covered with heavy timber or dense brush on 78.70 chs.  
 Cloudy, snow. Solar observations impossible.

May 8, 1905.

May 9: Cloudy; snow. Solar observations impossible.  
 N. 0°03'W. bet. secs. 19 and 20.  
 Ascend abruptly through heavy timber and dense brush.  
 5.00 Top of hill, 1,000 ft. high, bears E. and W. then SE. and NW., and descend abruptly.  
 16.00 Small hollow drains NE.  
 22.00 Top of secondary ridge, bears NE. and SW. Descend.  
 29.90 Descend abruptly over ledges into a branch of the N. fork of Bull Valley Canyon, 600 ft. deep.  
 39.50 Bottom of gulch, drains E. Seeps of poisonous water in the bottom. Ascend abruptly 50 ft.  
 40.00 Set a sandstone 20x10x6 ins., 15 ins. in the ground for sec. cor., marked  $\frac{1}{4}$  on W. face; from which  
     A yellow pine 20 ins. in diam. bears S. 25°E. 40 lks. dist., marked  $\frac{1}{4}$  S 20 B T  
     A yellow pine 20 ins. in diam. bears N. 30°W. 19 lks. dist., marked  $\frac{1}{4}$  S 19 B T  
 47.00 Top of small ridge, bears SE. and NW.  
 50.00 Bottom of gully, drains SE. Ascend abruptly 80 ft.  
 59.50 Top of ridge, bears NW. and SE. Descend over very broken country into head of branch of N. fork of BULL Canyon.  
 72.75 Top of small ridge, bears NW. and SE. and descend.  
 80.00 Set a sandstone 22x8x5 ins., 16 ins. in the ground for cor. of secs. 17, 18, 19, and 20, marked with 3 notches on the S. and 5 notches on the E. edges; from which  
     A cedar 8 ins. in diam. bears N. 74°W. 62 lks. dist., marked T 38 S R 3 W S 18 B T  
     A cedar 14 ins. in diam. bears N. 5°E. 33 lks. dist.,

Subdivision of T. 38 S. R. 3 E.

Chains.

marked T 38 S R 3 W S 17 B T

A cedar 36 ins. in diam. bears S.80°E. 85 lks.

dist., marked T 38 S R 3 W S 20 B T

A pinion pine 18 ins. in diam. bears S.88°W. 28

lks. dist., marked T 38 S R 3 W S 19 B T

Land rough and mountainous.

Soil, gravel and rocky; worthless.

Timber, cedar, pinion and yellow pine.

Brush, sage, deer, scrub oak, mountain rush, and thimbleberry.

Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

N.89°54'E. on a random line bet. secs. 17 and 20.

40.00 Set temp  $\frac{1}{2}$  sec. cor.

80.10 Intersect the N. and S. line 7 lks. N. W. of the cor. of secs. 16, 17, 20, and 21.

Thence I run

S.89°57'W. on a true line bet. secs. 17 and 20.

Ascend very abruptly along slope on S. side of Willis Creek Valley, over very rough ground through dense brush.

11.00 Top of hill, bears NW. and SE.; enter very heavy cedar and pinion pine. Thence over nearly level hill top.

40.05 Set a sandstone 18x10x7 ins., 12 ins. in the ground for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{2}$  on N. face; from which a cedar 20 ins. in diam. bears S.40°W. 28 lks. dist., marked  $\frac{1}{2}$  S 20 B T

A cedar 14 ins. in diam. bears N.30°W. 77 lks.

dist., marked  $\frac{1}{2}$  S 17 B T

54.00 Ascend gradually.

57.00 Ascend abruptly.

59.00 Top of hill, bears NW. and SE. Descend very abruptly 600 ft. into branch of Bull Valley Canyon, drains SE.

76.00 Dry wash, 15 ft. deep, 50 lks. wide., drains SE.

## Subdivision of T.38 S. R.3 W.

Chains.	
80.10	The cor. of secs. 17,18,19, and 20. Land, rough and mountainous to level. Soil, sand and gravel; 4th rate and worthless. Timber, cedar and pinion pine. Brush, sage, deer, scrub oak, and thimble-berry. Mountainous land or land covered with heavy timber or dense brush on 80.10 chs.
40.00	N.89°56'W. on a random line bet. secs. 18 and 19. Set temp $\frac{1}{4}$ sec. cor.
78.61	Intersect the Emery Valley Guide Meridian 8 lks. N. of the cor. of secs. 13,18,19, and 24, set by me and heretofore described. Thence I run N.89°59'E. on a true line bet. secs. 18 and 19.
12.00	Descend gradually through heavy cedar and pinion pine and dense brush; over high hill sloping to the NE.
19.00	Foot of ridge and ascend abruptly.
30.00	Top of ridge, bears N. and S. Descend gradually.
38.61	Descend very abruptly, from hill, bears NE. and SW., over ridges, bearing SE. and NW. Abrupt S. slope of hill. Set a sandstone 18x12x8 ins., 12 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on N. face; from which
	A pinion pine 12 ins. in diam. bears S.3°W.39 lks. dist., marked $\frac{1}{4}$ S 19 B T
	A pinion pine 14 ins. in diam. bears N.2°W.84 lks. dist., marked $\frac{1}{4}$ S 18 B T
	Ascend.
42.58	Top of sand ridge, bears S.20°E. and N.20°W., descend abruptly into gulch, drains S.20°E.
47.50	Bottom of gulch and ascend abruptly 60 ft. Gulch drains SE.
52.78	Top of ridge, bears S.20°E. and N.20°W., and descend.
60.28	W. side of gulch, drains S.20°E., and descend gradually.
60.60	Descend very abruptly into head of branch of

## Subdivision of T. 38 S., R. 3 W.

Chains:

- Bull Valley Canyon, 350 ft. deep, drains SE.  
 78.61 The cor. of secs. 17, 18, 19, and 20.  
 Land rough and mountainous.  
 Soil, sandy, gravelly, and rocky; 4th rate and worthless.  
 Timber, cedar and piñon pine.  
 Brush, sage, deer, mountain rush, and scrub oak.  
 Mountainous land or land covered with heavy timber or  
 dense brush on 78.61 chs.  
 Cloudy; snow and rain. Solar observations impossible.

May 9:1905.

May 10: At 8h56m a.m., l.m.t., I set off  $17^{\circ}34' N.$  on the decl. arc;  $37^{\circ}30' N.$  on the lat. arc, and determine a true meridian with the solar at the cor. pf secs. 17, 18, 19, and 20.

Thence I run

$N.0^{\circ}03' W.$  bet. secs. 17 and 18.

Through heavy timber and dense brush

- 1.50 Dry wash, 4 ft. deep, 25 lks. wide, drains SE. Ascend out of canyon.  
 8.00 Top of ridge, bears NW. and SE. and ascend.  
 16.50 Foot of highest part of hill, and ascend abruptly.  
 25.00 Top of ridge, bet. two main hills on E. and W., bears E. and W. Descend abruptly along W. slope of high hill.  
 31.00 Foot of hill, Leave cedar and piñon pine. Enter heavy scrub oak and willows. Enter Thompson's land. Fence bears E. and W.  
 37.00 Willis Creek wash, 6 ft. deep 100 lks. wide, drains SE. contains a small stream of pure water, 2 ins. deep, 20 lks. wide.  
 40.00 Set a sandstone 24x6x4 ins. 18 ins. in the ground for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{2}$  on W. face; dig pits 18x18x12 ins., N. and S. of the cor. 3 ft. dist., and raised a mound of earth 3 ft. base, 1 $\frac{1}{2}$  ft. high W. of cor.  
 Road bears NW. and SE.  
 44.00 Enter scattering cedar and ascend gradually. Thompson's house (has not been inhabited for several years) bears N. 4.50 chs.

## Subdivision of T. 38 S. R. 3 W.

Chains	
54.00	Foot of mountain on W. side of cove, ascend very abruptly 8.50 ft.
80.00	Point for cor. to secs. 7, 8, 17, and 18 falls in clayey ledges; corner cannot be set. Land rough and mountainous. Soil, gravel and sandy loam; 4th and 2d rate. Timber, cedar and pinion pine. Brush, sage, rabbit, mountain rush, scrub oak, and willows. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
	On account of impassable ledges, and gulches the lines bet. secs. 8 and 17 and 7 and 18, cannot be run. The distances shown on plat are proportioned between the nearest adjacent lines.
10.66	From true point for cor. secs. 7, 8, 17 and 18, I run N. 0° 03' W. bet secs. 7 and 8. Top of mountain bears NW. and SE. with ridge running NE. Enter heavy cedar and pinion pine. Set a sandstone 28x10x8 ins., 19 ins. in the ground for W.C. to cor. of secs. 7, 8, 17, and 18, marked W.C. on NE. face; with 4 notches on the S. and 5 notches on the E. edges; from which A cedar 30 ins. in diam. bears N. 1° E. 15 lks. dist., marked W.C. T 38 S R 3 W S 8 B T No other trees available to mark; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Bits impracticable.
20.00	Descend abruptly into small gully, 150 lks. wide, drains NE.
21.50	Ascend.
26.50	Descend abruptly from high hill along slope of gulch, drains NE.
40.00	Set a sandstone 30x10x6 ins., 22 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinion pine 12 ins. in diam. bears N. 8° W. 10 lks. dist., marked $\frac{1}{4}$ S 7 B T A pinion pine 18 ins. in diam. bears N. 40° W. 20 lks.

## Subdivision of T. 38 S. R. 3 W.

Chains

dist., marked T 38 S 8 B T

Cloudy; snow. Solar observations impossible.

May 10, 1905.

45.25	Bottom of gulch, drains NE. then sharply NW., and ascend.
50.00	Top of ridge, bears NE. and SW., and descend abruptly to gulch, drains NW.
56.78	Top of ridge, bears NE. and SW., and descend into main gulch.
63.00	Bottom of main gulch, drains NE., 650 ft. below top of hill. Ascend very abruptly along W. side of gulch.
80.00	Set a sandstone 24x8x5 ins., 18 ins. in the ground for cor. of secs. 5, 6, 7, and 8, marked with 5 notches on the S. and 5 notches on the E. edges; from which A cedar 14 ins. in diam. bears S.82°W. 58 lks. dist., marked T 38 S R 3 W S 7 B T A cedar 20 ins. in diam. bears S.44°E. 62 lks. dist., marked T 38 S R 3 W S 8 B T A cedar 22 ins. in diam. bears N.33°E. 76 lks. dist., marked T 38 S R 3 W S 5 B T A pinion pine 14 ins. in diam. bears N.40°W. 86 lks. dist., marked T 38 S R 3 W S 6 B T Land rough and mountainous. Soil, gravel and rocky; worthless. Timber, cedar and pinion pine. Brush, sage, deer, mountain rush, scrub oak, and thimbleberry. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

May 11: At 7h 56m a.m., l.m.t., I set off 17°50'N. on the decl. arc; 37°32'N. on the lat. arc; and determine a true meridian with the solar at the cor. of secs. 5, 6, 7, and 8. Thence I run

N.89°57'E. on a random line bet. secs. 5 and 8.

## Subdivision of P. Sec. 4, N. 30.

Chains.	
40.00	Set temp. 1 sec. cor.
80.18	Intersect the N. and S. line 15 lks. N. of the cor. of secs. 4, 5, 8, and 9.  Thence I run  N.89°55'W. on a true line bet. secs. 5 and 9. Through heavy brush over fairly level ground.
12.00	Enter heavy cedar and pinion pine, bears NW. and SW.
26.00	Descend very abruptly 200 ft. to gulch, drains NW. to main gulch.
30.50	Bottom of gulch.
35.00	Ascend very abruptly 200 ft. out of gulch.
39.00	Top of ridge bears N. and S. Descend very abruptly into main gulch.
40.09	Set a sandstone 22x18x6 ins., 16 ins. in the ground for sec. cor. marked $\frac{1}{4}$ on N. face; from which  A pinion pine 16 ins. in diam. bears N.40°E. 42 lks. dist., marked $\frac{1}{4}$ S 5 B T  A pinion pine 14 ins. in diam. bears S.25°W. 110 lks. dist., marked $\frac{1}{4}$ S 8 B T
51.50	Bottom of gulch, drains NE.; and ascend.
72.00	Ascend more gradual.
73.75	Descend into small gulch, drains SE.
77.00	Bottom of gulch and ascend abruptly up steep hill side.
80.18	The cor. of secs. 5, 6, 7, and 8.  Land level to mountainous.  Soil, sand, gravel, and rocky; 3rd rate and worthless. Timber, cedar and pinion pine, some yellow pine. Brush, sage, rabbit, deer, scrub oak, mountain rush, and thimble berry.  Mountainous land or land covered with heavy timber or dense brush on 80.18 etc.
	N.89°59'W. on a random line bet. secs. 6 and 7.
40.00	Set temp. 1 sec. cor.

## Subdivision of T. 38 S. R. 3 W.

Chains.

- 76.50 Intersect the Emery Valley Guide Meridian 10 lks. S. of the cor. of secs. 1, 6, 7, and 12, set by me and heretofore described.  
Thence I run  
S.  $89^{\circ}55'$  E. on a true line bet. secs. 6 and 7.  
Descend alongSSide of hill, through dense brush and heavy cedar and pinion pine.
- 23.00 Top of ridge, bears NE. and SW.
- 38.50 Set a sandstone 28x6x6 ins., 21 ins. in the ground for sec. cor., marked  $\frac{1}{4}$  on N. face; raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Pits impracticable.
- 43.50 Descend abruptly into gulch, 75 ft. deep, drains N.  $70^{\circ}$  E.
- 51.50 Bottom of gulch. Ascend abruptly.
- 57.45 Descend gradually over high hill top.
- 71.25 Descend very abruptly.
- 78.50 The cor. of secs. 5, 6, 7, and 8.  
Land, rough and mountainous.  
Soil, gravel; 4th rate and worthless.  
Timber, cedar and pinion pine.  
Brush, sage, deer, scrub oak, mountain rush and thimbleberry  
Mountainous land or land covered with heavy timber or dense brush on 78.50 chs.  
Cloudy; snow. Solar observations impossible.

May 11, 1905.

N.  $0^{\circ}03'$  W. on a random line bet. secs. 5 and 6.

- 40.00 Set temp. at sec. cor.
- 79.65 Intersect the N. bdy. of the T. 27 lks. W. of the cor. of secs. 5, 6, 31, and 32, set by me in the survey of the S. bdy. of T. 37 S. R. 3 W., and previously described.  
May 12: At this point, I set off  $18^{\circ}07'$  N. on the decl. arc, and at 11h 56m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $37^{\circ}33'$ .

## Subdivision of T. 38 S. R. 3 W.

Chains.	
	Thence $\frac{1}{4}$ run S.0°09'W. on a true line bet. secs. 5 and 6.
	Descend gradually through heavy pinion pine and cedar and dense brush.
11.50	Descend into small gully, 12 ft. deep, drains SE.
24.40	Bottom of gully. Trail in bottom, bears NW. and SE. Ascend gradually.
39.65	Set a sandstone 24x10x6 ins., 18 ins. in the ground for sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar 18 ins. in diam. bears N.30°E. 62 lks. dist., marked $\frac{1}{4}$ S 5 B T A pinion pine 16 ins. in diam. bears S.85°W. 54 lks. dist., marked $\frac{1}{4}$ S 6 B T Descend gradually.
40.00	Descend abruptly 100 ft. into gulch, drains E.
50.75	S. side of gulch. Ascend abruptly to hill top.
59.00	Top of hill, 450 ft. high, bears NE. and SW.
60.80	Descend gradually into canyon across small gulches, drain NE.
66.40	Descend abruptly into the gulch or canyon, 90 ft. deep, drains NE.
72.00	Leave gully and ascend abruptly.
74.50	Descend abruptly into gulch, drains SE.
79.00	Leave gulch and ascend.
79.65	The cor. of secs. 5, 6, 7, and 8. Land, rough and mountainous. Soil, sand, gravel, and rocky; 3rd rate and worthless. Timber, cedar and pinion pine, some few yellow pine. Brush, sage, deer, scrub oak, mountain rush and thimbleberry. Mountainous land or land covered with heavy timber or dense brush on 79.65 chs.

May 12, 1905.

General Description of T. 30 S. R. 3 W.

This township consists almost entirely of mountainous land, there being only one valley of size sufficient to be classed as level. This valley lies in the NE. portion of the township and is known as Sheep Creek Flat.

There are only a few kinds of soil in the township: the second rate clay-sand of Sheep Flat; the second rate brown gravelly loam in the bottoms of the hollows and along Willis Creek Valley and Canyon; the worthless alkali of the southern part; and the fourth rate gravelly soil of the hills.

From the high mountains on the NW. the township is cut draining generally SE. and forming very deep box canyons up into a vast number of deep hollows and canyons. <sup>A</sup> in the SE. portion of the township. All the hills are very steep and high. Irrigation is necessary to the production of crops; and there are only two small districts where farming can be practised with any degree of success: viz., Sheep Creek Flat, in parts of secs. 1, 2, and 12, and a narrow strip in Willis Creek Valley, in parts of secs. 16, 17, and 18.

A fair growth of grass exists throughout the township, but it is valuable only for free grazing. Pinion pine and cedar cover almost the entire township, except for small brush flats here and there, and the valleys of Sheep Creek. Small numbers of yellow pine are found in the canyons and gulches.

No building stone of value is found in the township, although there are large beds of sandstone and some limestone along the western part. Gypsum exists in vast quantities in Avarett's and Bull Canyons, the deposit having a general NE. and SW. trend. Some of the gypsum ledges are solid for 20 to 40 ft.. "Deposit" copper appears in Bull Valley but is valueless on account of its thinness and the impassability of the country.

The township is poorly watered. Sheep Creek supplies a small stream of seep water impregnated with iron and alkali.

General Description of T.38 S. R.3 W.

This water is all used by James Henderson on his ranch in secs. 1 and 2.

Willis Creek contains a small stream of pure water, available for irrigation purposes over a small area, not to exceed 160 acres. Bull Valley and Bull Valley Canyon contain many seep springs but all are poisonous, some to so great a degree as to make them very dangerous. Yellow Creek wash running through the NE. part of Sec. 1 contains a few seeps of poor quality.

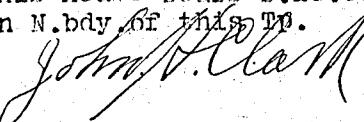
The little town of Georgetown lies partly in sec. 1 of this township; most of the houses are deserted and the land is mostly ruined by alkali waters used for irrigation.

This town is described in the general description of T.37 S. R.3 W.

R.W.Pinney, R.C.Pinney, and George W.Johnson own the land along the N. bank of Yellow Creek wash,in sec.1, comprised within the limits of Georgetown. R.C.Pinney has a small holding along the E. bdy. of sec. 1, above Yellow Creek wash, comprising about 25 acres of pasture land all under fence.

James E. and Joseph W.Thompson formerly held small parcels of agricultural land in secs. 16,17, and 18,in Willis Creek Valley, but have abandoned the same for nearly eight years. The total of their holdings is approximately 40 acres along the bdy. bet. secs. 17 and 18, and a parcel of about 20 acres along the north bank of the creek,midway bet. sec..cor. of sec. 16,17,20, and 21 and the  $\frac{1}{4}$  sec. cor. bet. secs. 16 and 21.

James Henderson, who is not included in the list of holders,owns a large and very valuable ranch running each way from the bdy. of secs. 1 and 2 and including something like 200 or more acres; his house bears S.15.00 dhs. from  $\frac{1}{4}$  cor.to secs. 2 and 35 on N.bdy. of this Tr.

  
Compassman for

William Lewman, D.S., Deceased.

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## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by John J. Clark, compassman for William Lewman, deceased, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivisions of Twp. 38 S R 3 W. L.S.B & M. M. M. showing the respective capacities in which they acted:

J. Cecil Clark	, Chairman.	
Samuel Gould	Wm M Mangum	, Chairman.
Samuel L. Gould		, Moundman.
Wm M Mangum		, Moundman.
Ezra Smith		, Axman.
Daniel Judd		, Axman.
Neil C. Johnson		, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John J. Clark, compassman for William Lewman, deceased, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Township Thirtynight South, Range Three West, of the State of Michigan, which are represented

Lake Erie Meridian, State of Michigan, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Michigan.

J. Cecil Clark	Samuel L. Gould	Chairman.
Wm M Mangum		, Chairman.
Samuel L. Gould		, Moundman.
Wm M Mangum		, Moundman.
Ezra Smith		, Axman.
Daniel Judd		, Axman.
Neil C. Johnson		, Flagman.

Subscribed and sworn to before me this 28<sup>th</sup> day of August A.D. 1905  
My Commission Expires Aug 15 1906  
SEAL

W. R. Vargent: Notary Public  
Marshall County, Mich.

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John J. Clark, Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blais, United States Surveyor General for Utah, bearing date of the 23 day of January 1879, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisions of Townships Thirteen Eight South Range Thirteen West, U. T.,

between meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John J. Clark  
Deputy Surveyor  
Utah, deceased

Subscribed by said John J. Clark, and sworn to before me  
this 29 day of August, 1905.

ccccc  
cccccc

Geo. R. Hancock  
Secretary

## APPROVAL.

## OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Washington, D. C., April 31, 1906  
The foregoing field notes of the survey of the Subdivision of Township Thirteen Range Thirteen West of the Salt Lake Meridian, Utah,

executed by John J. Clark, Deputy Surveyor, deceased, for his contract No. 225, dated January 23, 1879, 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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A.  
BOOK A-332

## FIELD NOTES

Reconcurrent  
OF THE SURVEY OF THE

West Boundary

of  
Sp. 14 N, R. 14 WOf the Salt Lake Base and Meridian,  
State of Utah,

AS SURVEYED BY

Nephil P. Anderson, United States Deputy Surveyor,

Under his Contract No. 245, dated April 12, 1901.

Survey commenced July 1, 1902.

Survey completed July 1, 1902.

Low 6.00.00

## NAMES AND DUTIES OF ASSISTANTS.

John S. Christensen,

Chairman

Eli Christensen,

Chairman

William N. Lee,

Manager

Lewis O. Johnson,

Asstman.

John A. Bingham,

Flagman.

Volume

#

R0332

BOOK A-332

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## PRELIMINARY OATHS OF ASSISTANTS.

WE, John S. Christensen and Eli Christensen,

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Retracement of Westlby of Twp 14 N., R. 14 W., and Westlby of Twp 14 N., R. 15 W.  
Salt Lake Base and Meridian, Utah.

John S. Christensen, Chainman.

Eli Christensen, Chainman.

Subscribed and sworn to before me this 19 }  
 day of June, 1902.



WE, William W. Lee,

and

my commission

NOV. 16th 1905

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us, to the best of my skill and ability, in the survey of

Retracement of Westlby of Twp 14 N., R. 14 W., and Westlby of Twp 14 N., R. 15 W., Salt Lake Base and Meridian, Utah.

William W. Lee,

Moundman.

, Moundman.

Subscribed and sworn to before me this 19 }  
 day of June, 1902.



WE, Lewis O. Johnson,

and

my commission expires,

NOV. 16th 1905

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given us, to the best of my skill and ability, in the survey of

Retracement of Westlby of Twp 14 N., R. 14 W., and Westlby of Twp 14 N., R. 15 W., Salt Lake Base and Meridian, Utah.

Lewis O. Johnson,

Axman.

, Axman.

Subscribed and sworn to before me this 19 }  
 day of June, 1902.



I, John S. Bingham,

, do solemnly swear that I will well and truly

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the

survey of Retracement of Westlby of Twp 14 N., R. 14 W., and Westlby of Twp 14 N., R. 15 W., Salt Lake Base and Meridian, Utah.

John S. Bingham,

Flagman.

Subscribed and sworn to before me this 19 }  
 day of June, 1902.



J. D. Call

Notary Public

My commission expires

NOV. 16th 1905

# Retracement of the West Bdy. of Tps. 14 N., R. 14

	Chains Survey	Survey commenced July 1, 1902, and executed with a W. & L. E. Gurley engineers transit. The horizontal limb is provided with two double verniers placed opposite to each other, reading to 20 seconds of arc. The telescope axis is provided with a 6 ins. vertical circle, reading by a double vernier to 10 seconds of arc.
		The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and approved by the surveyor general for Utah, June 26 1901.
		I commence at the cor. of Tps. 14 and 15 N., Rs. 14 and 15 W., which is a lime stone, 7x9x5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, and at $0^{\circ}54'2''$ a.m. l.m.t., observe Polaris at eastern elongation, according to instructions in the manual, and mark the line thus determined, by a tack driven in a wooden peg set in the ground, 5 chs north of my station. Latitude $41^{\circ}59'06''$ N., longitude $113^{\circ}31'24''$ W.
		At $6^{\circ}15''$ a.m. l.m.t. I lay off the azimuth of Polaris, $1^{\circ}38'$ to the west, and mark the meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.
		The magnetic bearing of the true meridian is $N.47^{\circ}48'W.$ , which gives the magnetic declination $17^{\circ}48'E.$ .
		Thence I run
		South, on W. bdy. of sec. 6.
		Over mountainous land, through cedars.
28.28		I search diligently for the $\frac{1}{4}$ sec. cor. but fail to find it.
48.00		Canyon, drains N. W.
53.00		Spur, bears E. and W.
		Descend gradually.
67.45		Intersect E. and W. line 50 lbs. E. of the cor. of

Retracement of the West Bdy. of Spt. 14 '01, R. 14 W.

0 miles	
0 miles	secs. 1, 6, 7 and 12, which is a limestone $8 \times 12$ x 7 ins. above ground, firmly set, marked and witnessed as described by the survey- or general. The bearing is therefore $S.0^{\circ}26'W.$ Land, mountainous. Soil, gravelly and rocky, 3rd rate Timber, cedars. Mountainous land 67.45 chs.
37.00	South, on W. bdy. of sec. 7. Over mountainous land, through cedars. Ridge, bears N.E. and S.W. Descend.
40.00	I search for the $\frac{1}{4}$ sec. cor. but fail to find it.
59.00	Flat hollow, draining S.W.
78.00	Spur, sloping S.W.
80.04	Intersect E. and W. line 133 chs. E. of the cor. of secs. 7, 12, 13 and 18, which is a limestone, $7 \times 10 \times$ 6 ins. above ground, firmly set, marked and witnessed as described by the survey- or general. The bearing is therefore $S.0^{\circ}57'W.$ Land, mountainous. Soil, gravelly and rocky. 3rd rate. Timber, cedars. Mountainous land 80.04 chs.
39.98	South, on W. bdy. of sec. 18. Over mountainous land, through cedars. 30 lls. east of line I find the $\frac{1}{4}$ sec. cor., which is a limestone, $8 \times 10 \times 7$ ins. above ground, firmly set, marked and wit- nessed as described by the surveyor gen- eral.
70.00	Canyon road bears E. and W.
77.75	Fence, bears E. and W., leave mountain, enter bottom
79.96	60 lls. east of line I find a quartz stone for cor. of secs. 13, 18, 19 and 24, $7 \times 6 \times 6$ ins. above ground, firmly set, marked and wit-

Retracement of West Bdy. of T. 14 N., R. 14 E.

Chains	<p>messed as described by the surveyor general.</p> <p>The course is therefore <math>S.0^{\circ}26' E.</math></p> <p>Land mountainous.</p> <p>Soil, gravelly and rocky, 3rd rate.</p> <p>Timber, cedars.</p> <p>Mountainous land 77.75 chs.</p>
	<p>South, on West bdy. of sec. 19.</p> <p>Over bottom land.</p> <p>George Creek, 10 lbs. wide, 8 ins. deep, flows N.</p> <p>Fence, bears E. and W., leave bottom and ascend on mountain.</p> <p>Ridge, bears N.E. and S.W.</p> <p>I search for the <math>\frac{1}{4}</math> sec. cor., but fail to find it</p> <p>Enter timber.</p>
	<p>Canyon, drains N.E.</p> <p><sup>dry</sup> 2.28 east of line I find a lime stone, <math>9 \times 12 \times 6</math> ins. above ground, for cor. of sec. 19, 24, 25 and 30, marked and witnessed as described by the surveyor general.</p> <p>The bearing is therefore <math>S.1^{\circ}38' E.</math></p> <p>Land, mountainous.</p> <p>Soil, coarse gravelly, 3rd rate.</p> <p>Timber, pines.</p> <p>Mountainous land 80.05 chs.</p>
	<p>South, on West bdy. of sec. 30.</p> <p>Over mountainous land, through timber.</p> <p>Leave timber</p> <p>Ridge, bears N.W. and S.E., descend</p> <p>I search for the <math>\frac{1}{4}</math> sec. cor. but find no trace of it.</p> <p>Intersect the cor. of secs. 25, 30, 31 and 36 which is a limestone, <math>7 \times 9 \times 6</math> ins. above ground, firmly set, marked and witnessed as described by the surveyor general.</p> <p>Land, mountainous.</p> <p>Soil, gravelly and rocky, 3rd rate.</p> <p>Timber, pines.</p>

Retracement of West Bdy. of Twp 14 N., R. 14 W.

Chains	Mountainous land 82.70 chs.
	Southly, on West bdy. of sec. 31. Over mountainous land, through timber. Descend.
14.00	Brook, 1 lk. wide, 2 ins. deep, flows S.W. Ascend.
24.00	Corral, 3 chs. west.
30.00	Brook, 2 lk. wide, 2 ins. deep, flows S.W.
36.00	Spur, bears N.E. and S.W.
40.08	I find the 1/4 sec. cor. which is a quartz stone, 7x10x7 ins. above ground, marked and witnessed as described by the sur- veyor general.
48.00	Brook, 2 lk. wide, 2 ins. deep, flows S.W.
68.00	Spur, bears E. and N. Descend.
92.80	Intersect the cor. of Twp. 13 and 14 N., R. 14 and 15 W. which is a quartz stone, 6x14x7 ins. a- bove ground, firmly set, marked and witnessed as described by the surveyor general. Land; mountainous. Soil, gravelly and rocky, 3rd rate. Timber, pines. Mountainous land 92.80 chains.

July 1, 1902.

Nephi P. Anderson.  
U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_, showing the respective capacities in which they acted:

, Chainman.

, Chainman.

, Moundman.

, Moundman.

, Axeman.

, Axeman.

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all \_\_\_\_\_ parts or portions of the \_\_\_\_\_, of the \_\_\_\_\_, meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_.

, Chainman.

, Chainman.

, Moundman.

, Moundman.

, Axeman.

, Axeman.

, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

*In full affidavit see back F. Feb 14 N P 15 W*

of the \_\_\_\_\_ meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Sold Lake City Section April 3 1901, 190*  
*Attachment of the West Boundary of*  
*Township 14 North Range 14 West of the Sold Lake*  
*Base Meridian. Reck.*

executed by \_\_\_\_\_, Nephi P. Anderson  
under his contract No. 245, dated April 19, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Thomas D. Bell*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-332

## FIELD NOTES

No. 1  
OF THE SURVEY OF THE

Geologic Boundary

of the State of California

SACRAMENTO, CALIFORNIA, U.S.A.

JULY 1899 - JUNE 1900

BY THE SURVEYOR GENERAL OF CALIFORNIA

FOR THE STATE LAND COMMISSION AND THE STATE GEOLOGIST

IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE LAW

AND IN PURSUANCE OF THE AUTHORITY GRANTED BY THE STATE LEGISLATURE

TO THE SURVEYOR GENERAL OF CALIFORNIA TO MAKE A SURVEY OF THE STATE LANDS

AND TO ESTABLISH A SURVEY OF THE STATE LANDS FOR THE USE OF THE STATE LAND COMMISSION

AND THE STATE GEOLOGIST.

IN PURSUANCE OF THE AUTHORITY GRANTED BY THE STATE LEGISLATURE

TO THE SURVEYOR GENERAL OF CALIFORNIA TO MAKE A SURVEY OF THE STATE LANDS

AND TO ESTABLISH A SURVEY OF THE STATE LANDS FOR THE USE OF THE STATE LAND COMMISSION

AND THE STATE GEOLOGIST.

IN PURSUANCE OF THE AUTHORITY GRANTED BY THE STATE LEGISLATURE

TO THE SURVEYOR GENERAL OF CALIFORNIA TO MAKE A SURVEY OF THE STATE LANDS

AND TO ESTABLISH A SURVEY OF THE STATE LANDS FOR THE USE OF THE STATE LAND COMMISSION

AND THE STATE GEOLOGIST.

IN PURSUANCE OF THE AUTHORITY GRANTED BY THE STATE LEGISLATURE

TO THE SURVEYOR GENERAL OF CALIFORNIA TO MAKE A SURVEY OF THE STATE LANDS

AND TO ESTABLISH A SURVEY OF THE STATE LANDS FOR THE USE OF THE STATE LAND COMMISSION

NAMES AND DUTIES OF ASSISTANTS.

John S. Christensen,

Chairman.

Eli Christensen,

Chairman.

William N. Lee,

Moundman

Lewis O. Johnson,

Asman.

John S. Bingham,

Flagman.

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Volume

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R0332

BOOK A-332

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*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

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*Meanders Page* \_\_\_\_\_

**PRELIMINARY OATHS OF ASSISTANTS.**

We, John S. Christensen and Eli Christensen  
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

South boundaries of Twp. 14 N., R. 15 W., and of Twp. 12 N., R. 19 W., Salt Lake Base and Meridian, Utah.

John S. Christensen, Chairman.  
Eli Christensen, Chairman.

Subscribed and sworn to before me this 19

day of June, 1902.



We, William W. Lee

and

mission expires,

Nov. 10th 1905

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

South boundaries of Twp. 14 N., R. 15 W., and of Twp. 12 N., R. 19 W., Salt Lake Base and Meridian, Utah.

William W. Lee, Moundman.

Moundman.

Subscribed and sworn to before me this 19

day of June, 1902.



We, Lewis O. Johnson

and

my commission expires,

Nov. 16th 1905

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

South boundaries of Twp. 14 N., R. 15 W., and of Twp. 12 N., R. 19 W., Salt Lake Base and Meridian, Utah.

Lewis O. Johnson, Axman.

Axman.

Subscribed and sworn to before me this 19

day of June, 1902.



I, John S. Bingham

, do solemnly swear that I will well and truly

my commission expires,

Nov. 16th 1905

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of South boundaries of Twp. 14 N., R. 15 W., and of Twp. 12 N., R. 19 W., Salt Lake Base and Meridian, Utah.

John S. Bingham, Flagman.

Subscribed and sworn to before me this 19

day of June, 1902.



J D Call

Notary Public

my commission expires,

Nov. 16th 1905

# Resurvey of South Bdy. of Twp. 14 N., R. 15 W.

Chain

Survey commenced July 2, 1902,  
and executed with a W. & L. E. Gurley  
engineers transit, described in notes  
of subdivision of this Twp. Book A.  
At the cor. of Twp. 13 and 14 N., R. 14 and 15 W.,  
which is a quartz stone,  $6 \times 14 \times 7$  ins.  
above ground, firmly set, marked  
and witnessed as described by the  
surveyor general, latitude  $41^{\circ} 53' 53''$  N.  
longitude  $113^{\circ} 31' 24''$  W.  
at  $8^{\text{th}} 50^{\text{m}} .3$  a.m., l.m.t., I observe Polaris  
at E. elong. in accordance with instruc-  
tions in the Manual, and mark a  
point in the line thus determined by a  
tack driven in a wooden peg set in the  
ground 5 chs. N. of my station, and at  
 $6^{\text{th}} 45^{\text{m}} .1$  a.m. I lay off the azimuth of Polaris  
 $1^{\circ} 38' .1$  to the west, and mark the meridian  
thus determined by a cross on a rock  
firmly set in the ground, west of the  
point established last night.

The magnetic bearing of the true meridian  
is N.  $17^{\circ} 50'$  W., which gives the magnetic  
declination  $17^{\circ} 50'$  E.

Distance of run

$2.89^{\circ} 50'$  W. bet. secs. 1 and 36.

- Over mountainous land, descending through timber  
26.00 Brook, 2 lbs. wide, 1 in. deep, flows N. W.  
40.09 I find a quartz stone,  $7 \times 12 \times 5$  ins. above  
ground, firmly set, marked and wit-  
nessed as described by the surveyor  
general.  
63.35 Brook, 1 lk. wide, 2 ins. deep, flows W., in hollow.  
80.00 I search diligently for the old cor., but find  
no traces of it.

Set temp. sec. cor. Distance of run

South, on random line, bet. secs. 1 and 2.

and  $80.18$  chs. intersect E. and W. line 38 chs.  
W. of the cor. of secs. 1, 2, 11 and 12, which is  
a quartz stone,  $8 \times 10 \times 8$  ins. above ground,  
firmly set, marked and witnessed as

Survey of South Body of Twp 14 N. R. 45 E.

Distance	described by the surveyor general Survey Scour
110.16' N.	on tree line, bet. succ. 1 and 2.
40.14'	finds the old 1/4 sec. cor., which is angular stone, 2 x 9 x 6 in. above ground, firmly at- tached and witnesses as described by the surveyor general.
80.00	Intersects the temporary sec. cor. Set as quartz stone, 16 x 10 x 8 in., 11 in. in the ground, for cor. of succ. 1, 2, 35 and 36. marked with 5 notches on W. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, 1/4 of cor., pits impractical. Land, mountainous.
	Soil, gravelly and rocky, 3rd rate. Timber, aspens and pines. Mountainous land 80.00 acs.
<hr/>	
	8.87' 50' N. Ad. succ. 2 and 35.
25.00	Over mountainous land, through timber fleecy brook, 3 ft. wide, ..... in. deep, flows S. W. in canyon.
40.00	Find no 1/4 cor., nor traces of it. Set as quartz stone, 14 x 12 x 6 in., 9 in. in the ground, for 1/4 sec. cor. marked 4 notches on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, 1/4 of cor., pits impractical.
45.00	Ridge, sloping S., decundi.
53.00	Brook, 2 ft. wide, 1 in. deep, flows S. W. in hollow between.
70.00	Ridge, sloping S., decundi.
80.00	Set as slate rock, 19 x 6 x 5 in., 14 in. in the ground, for cor. of succ. 34 and 35, marked with 4 notches on W. and 2 notches on E. edge and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, 1/4 of cor., pits impractical. Land, mountainous.
	Soil, rocky, 3rd rate. Timber, aspens. Mountainous land 80.00 acs.

Resurvey of the South Bdy. of Twp. 14 N., R. 15 W.

	81.89°50'W., on S. boundary of sec. 34. Over mountainous land through timber.
2.95	Intersect the old cor. of secs. 2, 3, 34 and 35, which is a slate stone, 28×10×5 ins., in mound of stone, on top of cliff, marked and witnessed as described by the surveyor general. I destroy all marks thereon pertaining to secs. 34 and 35. By flagging ahead to the respective sec. corrs. I find the line bearing 81.89°43'W. and therefore run 81.89°43'W.
32.00	Johnson Creek, 4 ft. wide, 3 ins. deep, flows N. W. in canyon.
42.00	Set a quartz stone, 16×10×6 ins., 11 ins. in the ground, for 1/4 sec. corr., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, 1 1/2 ft. cor., pit impracticable. I find no traces of the old 1/4 sec. corr.
50.00	Set a shale rock, 16×7×6 ins., 11 ins. in the ground, for corr. of secs. 33 and 34, marked with 3 on the N.E. and W. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, 1 1/2 ft. cor., pit impracticable. Land, mountainous. Soil, rocky and gravelly, 3rd rate. Timber, sparse. Mountainous land: 80.00 chs.
	81.89°43'W. on S. bdy. of sec. 33. Over mountainous land, ascend through timber.
3.78	Intersect the old cor. of secs. 3, 4, 33 and 34, which is a granite stone, 6×12×5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. On this cor. I destroy all marks pertaining to secs. 33 and 34.
23.00	Ridges, bears N. W. and S. E.
40.00	Set a quartz stone, 15×8×8 ins., 10 ins. in the ground, for 1/4 sec. corr., marked 1/4 on N.

Survey of South Bdy. of Twp 14 N. R. 15 E.

Claims	face, and raise a mound of stone, 2 ft. high, 1½ ft. thick, S. of sec. 5, fits impracticable. Search diligently for the old one, but find no trace of it.
58.50	Brook, 2 ft. wide, 1 in. deep, flows N. irregularly, and leaves a sand bar, 19x6x6 in., 14 in. in the ground, for cor. of secs. 32 and 33, marked with 3 notches on W. and 4 notches on E. edges, and raise a mound of stone, 2 ft. high, 1½ ft. thick, S. of cor., fits impracticable. Land, mountainous.
80.00	Soil, gravelly and rocky, 3rd rate. Timber, cedar, aspens, and pines. Mountainous land 80.00 chs.
	S. 87° 45' W., on S. bdy. of sec. 32. Over mountainous land, ascending through timber ridges, bearing N.E. & S.W. descends.
1.00	Enters the cor. of secs. 4, 5, 32 and 33, which is a lime stone, 7x12x5 in. above ground, marked and witnessed as described by the surveyor general.
3.23	Destroys all marks on this cor. pertaining to secs. 32 and 33.
27.50	Bulky, draining N., ascends.
40.00	Leaves quartz stone, 14x9x8 in., 9 in. in the ground, for 1/4 sec. cor., marked 14 on N. face, and raise a mound of stone, 2 ft. high, 1½ ft. thick, S. of cor., fits impracticable.
42.00	Finds the old 1/4 sec. cor., which is a quartz stone, 8x7x7 in. above ground, firmly set, marked and witnessed as described by the surveyor general. Destroys all marks pertaining to 1/4 sec.
51.00	Ridge, sloping N., descends.
80.00	Leaves a sand stone, 20x7x6 in., 15 in. in the ground, for cor. of secs. 31 and 32, marked with 1 notch on W. and 5 notches on E. edge, and raise a mound of stone, 2 ft. high, 1½ ft. thick, S. of cor., fits impracticable. Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.

Resurvey of S. Bdy. of Tps. 14 W., R. 15 W.

*Timber, aspens, pines and mahogany.*  
Mountainous land 80.00 chs.

S. 89° 43' W., on S. bdy. of sec. 31.

Over mountainous land, through timber  
intersect the cor. of secs 5, 6, 31 and 32, which is  
a quartz stone, 6×10×6 ins. above ground,  
marked and witnessed as described by  
the surveyor general.

Destroy all marks on this cor. pertaining  
to secs. 31 and 32.

40.00 Set a quartz stone, 16×10×6 ins., 11 ins. in  
the ground, for 1/4 sec. cor., marked 1/4  
on N. face, and raise a mound of stone,  
2 ft. base, 1 1/2 ft. high, N of cor., pits impracticable.

40.30 Intersect the old 1/4 sec. cor., which is a quartz  
stone, 7×9×5 ins. above ground, marked  
and witnessed as described by the surveyor  
general. Destroy all marks thereon referring to sec. 31.

53.35 Road, between George Creek and Park Valley,  
bears N. E. and S. W.

51.30 Wild Cat Creek, 2 lbs. wide, 2 ins. deep,  
flows N. in hollow.

40.77 Intersect the cor. of Tps. 13 and 14 W., R. 15  
and 16 W., which is a quartz stone,  
6×14×7 ins. above ground, firmly set,  
marked and witnessed as described  
by the surveyor general.

Land, mountainous.

Soil, gravelly and rocky, 3rd rate.

Timber, aspens.

Mountainous land 82.77 chs.

July 2, 1902.

For general description see notes  
of subdivision.

Nephi P. Anderson,  
U. S. Deputy Surveyor.

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# FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by .....  
....., United States Deputy Surveyor, to assist in running, measuring, and  
marking the lines and corners described in the foregoing field notes of the survey of .....  
....., giving the respective capacities in which they acted:

....., *Chairman.*

....., *Chairman.*

....., *Moundman.*

*Official affidavits Sec. book K. p. 12. M. Reg. 17*, *Moundman.*

....., *Arman.*

....., *Arman.*

....., *Flagman.*

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....  
....., United States Deputy Surveyor, in surveying all  
the parts or portions of the .....  
....., of the .....  
....., meridian, and boundaries of ....., which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
was made, in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
various instruments established, according to the instructions furnished by the United States Surveyor

....., *Chairman.*

....., *Chairman.*

....., *Moundman.*

*Official affidavits Sec. book K. p. 12. M. Reg. 17*, *Moundman.*

....., *Arman.*

....., *Arman.*

....., *Flagman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 190 ..... }

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date of \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

*For final affidavit see book R. file No. P. 9. W.*

of the \_\_\_\_\_

meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Salt Lake City, Utah April 3, 1901*, 1901

The foregoing field notes of the survey of *The South Boundary Township  
1st North Range 15 West of the Salt Lake Basal Meridian  
Utah*

executed by *Leffie Anderson*  
under his contract No. *2451*, dated *April 13, 1901*, 1901, having  
critically examined, and the necessary corrections and explanations made, the said field notes, and  
the surveys they describe, are hereby approved.

*Thomas H. Bell*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-332

## FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of  
Twp. 14 N., R. 15 W.

of the Salt Lake Base and Meridian,  
State of Utah.

AS SURVEYED BY

Nephilus P. Anderson, United States Deputy Surveyor,  
under his Contract No. 245, dated April 12, 1901.  
Survey commenced July 3, 1902.  
Survey completed July 9, 1902.

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Aug. 20. 40.88 ✓  
Sep. 3. 10.82 ✓  
Oct. 7. 5.36 ✓

NAMES AND DUTIES OF ASSISTANTS.

John S. Christensen,

Chairman

Eli Christensen,

Chairman

William N. Lee,

Moundman

Lewis O. Johnson,

Axman

John L. Bingham,

Flagman

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*Meanders Page* .....

**PRELIMINARY OATHS OF ASSISTANTS.**

WE, John S. Christensen and Eli Christensen  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Subdivisions of Twp. 14 N., R. 15 and 16 E., and Twp. 11 N., R. 19 W., Salt Lake Base and Meridian, Utah. John S. Christensen, Chainman.

Eli Christensen, Chainman.

Subscribed and sworn to before me this 19  
day of June, 1902. }



WE, William N. Lee and

my commission expires,

Nov. 16th 1905

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Subdivisions of Twp. 14 N., R. 15 and 16 E., and Twp. 11, 12 and 13 N., R. 19 W., Salt Lake Base and Meridian, Utah. Will N. Lee, Moundman.

Moundman.

Subscribed and sworn to before me this 19  
day of June, 1902. }



WE, Lewis O. Johnson and

my commission expires,

Nov. 16th 1905

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of my skill and ability, in the survey of

Subdivisions of Twp. 14 N., R. 15 and 16 E., and Twp. 11, 12 and 13 N., R. 19 W., Salt Lake Base and Meridian, Utah. Lewis O. Johnson, Axman.

Axman.

Subscribed and sworn to before me this 19  
day of June, 1902. }



I, John S. Bingham, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivisions of Twp. 14 N., R. 15 and 16 E., and Twp. 11, 12 and 13 N., R. 19 W., Salt Lake Base and Meridian, Utah. John S. Bingham, Flagman.

Subscribed and sworn to before me this 19  
day of June, 1902. }



J. D. Call  
Notary Public

my commission expires,

Nov. 16th 1905

Subdivision of Twp. 14 N., R. 15 W.

Chain Survey commenced July 3, 1902, and executed with a N. and S. E. Gurley engineer's transit. The horizontal limb reads by two double verniers, placed opposite each other, to 20 seconds of arc, and the telescope axis is provided with a 6 in. vertical circle, reading by a double vernier to 10" of arc. The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and approved by the surveyor general for Utah, June 26, 1901.

The elevations are taken from a 2 in. aneroid barometer.

At the cor. of secs. 1, 2, 35 and 36, on S. bdy. of the Twp., herein before described, lat.  $41^{\circ} 53' 53''$  N., long.  $113^{\circ} 32' 34''$  W., at  $0^{\text{h}} 46^{\text{m}}$  a.m., L. m. t., I observe Polaris at eastern elongation in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven in a wooden plug, set in the ground 5 chs. north of my station. At  $7^{\text{h}} 40^{\text{m}}$  a.m., I lay off the azimuth of Polaris  $1^{\circ} 38' 1''$  to the west, and mark the meridian thus determined by a cross on a rock firmly set in the ground, west of the point established last night.

The magnetic bearing of the true meridian is  $17^{\circ} 52'$  W., which gives the magnetic declination  $17^{\circ} 52'$  E.

Hence I run

N.  $0^{\circ} 1'$  W., bet. secs. 35 and 36.

Over mountainous land, through timber.  
Descend.

5.15 Creek, 6 chs. wide, 3 ins. deep, flows W. in canyon, elevation 7070 ft.  
Ascend.

11.00 Spur, sloping S. W.

18.00 Spring, 3 chs. west, flows S. W., in hollow, elevation 7120 ft.

21.00 Hollow, drains S. W.

33.00 Hollow, drains S. E.

Subdivision of Twp. 14 N., R. 15 W.

	Shows records.
40.00	Set in quartz stone, 14x9x7 ins., 9 inches in the ground for 44 sec. cor., marked 14 on W. face, and raised a mound of stone, 2 ft. base, 1½ ft. high, W. of corner, pits impractical.
74.50	Ridge, bears E. and W.; elevation 7750 ft. Records.
80.00	Set in lime stone, 20x7x4 ins., 15 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and S. edges, and raised a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impractical.
	Land, mountainous. Soil, rocky and gravelly, 3rd rate. Timber, cedars and aspens. Mountainous land 80.00 acs.
	St. 89° 50' E. on random line, bet. secs. 25 and 36.
40.00	Set, temp. 44 sec. cor.
80.16	Intersects the east bdy. of the Twp. Set a limestone 14x8x5 ins. 9 ins. in the ground, for closing cor. of secs. 25 and 36, marked 1. 1. on W. with 1 groove on S. and 5 grooves on W. face, dig pits 24x18x12 ins. cross-wise on each line, N. and S. 8 ft., and 1 ft. of stone 7 ft. dist., and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Elevation 7600 ft.
	Fences & roads.
	North on east bdy. of the Twp., and at
12.96	Intersects the cor. of secs. 25, 30, 31 and 36, which is a limestone, 7x9x6 ins. above ground, firmly set, marked and witnessed and described by the surveyor general.
	Destroy all marks thereon pertaining to secs. 25 and 36.
	Land, mountainous. Soil, gravelly, 2nd rate. Timber, small aspens, in patches.

Subdivision of Twp. 14 N., R. 15.

Claims	Mountainous land 12.96 chs.
	From the closing cor. of secs. 25 and 36 I run S. 89° 50' W., on true line, bet. secs. 25 and 36. Over mountainous land, through aspen brush. Ascend.
0.50	Leave aspen brush.
1.60	Hollow, drains S. W.
25.00	Ridge, bears N.E. and S.W., elevation 7900 ft. Descend.
40.08	Set a quartz stone, 18x7x5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of corner, pits impracticable.
80.16	The cor. of secs. 25, 26, 35 and 36. Land, mountainous. Soil, gravelly, 2nd rate. No timber. Mountainous land 80.16 chs.
	N. 0° 1' W., bet. secs. 25 and 26. Over mountainous land. Descend.
0.40	Enter aspen bush.
13.00	Leave aspen brush.
23.00	Hollow, drains N. W.
27.50	Ledge of rock, trends N. W. and S. E.
32.50	Spring, 6 chs. W., flows N.
40.00	Set a shale rock, 20x14x3 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of corner, pits impracticable.
60.50	Brook, 2 lbs. wide, 1 in. deep, flows N. W. in canyon. Elevation 6940 ft.
61.10	Poor road, bears N. W. and S. E. Ascend through cedars.
80.00	On rounded ridge, sloping N. W. Set a limestone, 17x8x6 ins., 11 ins. in the

Subdivision of Twp. 14 N., R. 15 W.

Chains	ground, for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable. Elevation 7400 ft. Land, mountainous. Soil, rocky, 3rd rate. Timber, cedars. Mountainous land 80.00 chs.
40.00	N. $89^{\circ}50'$ E., on random line, bet. secs. 24 and 25. Set temp. 14 sec. cor.
80.00	Intersect the east bdy. of the Twp. Set a lime stone, $14 \times 9 \times 6$ ins., 9 ins. in the ground, for closing cor. of secs. 24 and 25, marked c.c. on W., with 2 grooves on S. and 4 grooves on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
15.28	Thence I run North, on E. bdy. of the Twp., and at intersect the cor. of secs. 19, 24, 25 and 30, which is a limestone, $9 \times 12 \times 6$ ins. above ground, firmly set, marked and witnessed as de- scribed by the surveyor general. I destroy all marks thereon referring to secs. 24 and 25. Land, mountainous. Soil, forest mold, 1st rate. Timber, pines. Mountainous land 15.28 chs.
13.00	From the closing cor. of secs. 24 and 25 I run $S. 89^{\circ}50' W.$ , on true line, bet. secs. 24 and 25. Over mountainous land; through pine timber. Ascend. Ridge, bears N. E. and S. W., elevation 8200 ft. Descend.
15.00	Leave green and enter fire swept pine timber.
40.00	Set a charred pine post, 3 ft. long, 3 ins. square, with charred stake, 24 ins. in the ground,

Subdivision of Twp. 14 N., R. 15 W.

Leave	for 44 sec. cor., marked 44 S. 24 on N. face, and S. 25 on S. face, dig pits, 18x18x 12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
Leave	Leave fire swept timber, largely charred and mostly fallen.
65.00	Descend more abruptly -
66.00	Enter mahogany -
73.00	Leave mahogany -
80.00	The cor. of secs. 23, 24, 25 and 26. Land, mountainous. Soil, rocky and gravelly, 3rd rate. Timber, pines. Mountainous land 80.00 chs.

At 8°1' N., on random line, bet. secs. 23 and 24.	
Set temp. 44 sec. cor.	
83.01	Intersect E. and W. line 43 lbs. W. of the cor. of secs. 13, 14, 23 and 24, which is a limestone, 6x8x6 ins. above ground, marked and witnessed as described by the surveyor general. Thence S run 8°17' N., on true line, bet. secs. 23 and 24. Over mountainous land, ascending.
11.00	Ridge, bears E. and W.
14.00	Enter dense cedars and descend.
34.50	Hollow, drains W.
53.01	Ridge, bears E. and W. Set a limestone, 14x7x6 ins., 9 ins. in the ground, for 44 sec. cor., marked 44 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Descend.
44.00	Leave dense cedars.
46.00	Wash in canyon, drains N. W., ascend abruptly.
54.00	Leave steep slope and ascend gradually.
54.50	Rocky ledge, trending N. W. and S. E. Descend.
65.50	Wash, drains N. W. in hollow. Ascend.
83.01	The cor. of secs. 23, 24, 25 and 26. Land, mountainous. Soil, rocky and gravelly, 3rd rate.

Subdivision of Twp. 14 N., R. 15 W.

Chains	Timber, dense cedar. Mountainous land 83.01 chs.
	July 3, 1902.
	July 4. At the corner 13, 14, 23 & 24, at 5 <sup>h</sup> 42.5 a.m. G. M. T., I observe Polaris at eastern elong. in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven in a wooden plug set firmly in the ground 5 chs. N. of my station Lat. $41^{\circ} 56' 29''$ N., long $113^{\circ} 32' 34''$ W.
	At 7 <sup>h</sup> 20 <sup>m</sup> a.m., I lay off the azimuth of Polaris $1^{\circ} 38'.1$ to the west, and mark the meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. $17^{\circ} 50' W.$ , which gives the magnetic declination $17^{\circ} 50' E.$
	Thence I run East, bet. secs. 13 and 24. Over mountainous land, through timber. Ascend.
9.00	Ridge, bears N. W. and S. E., descend.
19.00	Hollow, drains N. W., ascend.
32.00	Arrive on top of ridge, bearing N. W. and S. E.
59.00	Descend.
40.00	I search diligently for the old cor., but find no trace of it.
	Set a limestone, $21 \times 14 \times 5$ ins., 16 ins. in the ground for 44 sec. cor., marked 44 on N. face; dig pit, $18 \times 18 \times 12$ ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	A pine, 5 ins. diam., bears N. $11^{\circ} 40' W.$ , 62 lbs. dist., marked 44 & 13, P. C.
	A pine, 12 ins. diam., bears E. $13^{\circ} 25' E.$ , 184 lbs. dist., marked 44 & 24, P. C.
	Knowing I can not intersect the east bdg. of the Twp. within limit I continue this course east.

Subdivision of Twp. 14 N., R. 15 W.

Streams	
41.00	Enter aspen and pine timber.
49.00	Leave aspen and pine timber.
58.00	Gulch, drains N. E., bordered with pine timber.
75.60	Fence, bears S. E. and N. W., leave mountains and enter George Creek bottom and dense willows.
77.00	Fork of George Creek, 4 lbs. wide, 5 ins. deep, flows N. W.
77.46	Intersect the east bdy. of the Twp. Set a quartz stone, 18x6x6 ins., 12 ins. in the ground, for closing cor. of secs. 13 and 24, marked c. c. on N., with 3 grooves on S. and N. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., fits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, pines and aspens.
	Dense willows 1.86 chs.
	Mountainous land 75.60 chs.
	Fence I run
	N. 1° 38' W. on E. bdy. of the Twp.
	Through dense willows.
1.00	George Creek, 10 lbs. wide, 8 ins. deep, flows N. W.
2.00	Leave dense willows, enter field.
13.00	Intersect the cor. of secs. 13, 18, 19 and 24, which is a quartz stone, 7x6x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	I destroy all marks thereon referring to secs. 13 and 24.
	Land, level bottom.
	Soil, sedimentary, 1st rate.
	No timber.
	Dense willows 9.00 chs.

Subdivision of Sec. 14 N., R. 15 W.

- Claims From the 44 sec. cor. of secs. 12 and 13, which is a red sand stone, 5x16x6 ins. above ground, finely set, cracked and weathered as described by the surveyor general, and knowing that it can not intersect the east ldy. of the Sps. within limits back right to the cor. of secs. 11, 12, 13 and 14, and continue the line from the 15 sec. cor. East, bet. secs. 12 and 13.  
Through dense cedar.  
Boulders.  
3.50 Low ridge, bears S. 34° and N. E.  
Descend.  
5.10 Irrigation ditch, 4 ft. wide, 1 ft. deep, drains S. W.  
7.30 Wood roads, bears S. 34° and N. E.  
Low ridge and cedar.  
9.40 Peculiar irrigation ditch, drains N. N.W.  
Entre cedar and ascord.  
55.63 Enter west ldy. of the Sps.  
~~Set a lime stone, 17x8x8 ins., nine in the ground, for closing cor. of secs. 12 and 13, marked s. e. cor. N., with 4 grooves on N. and 2 grooves on S. faces; dig pits 24x18x12 ins. across with one each time, N. and S. 3 ft. H. of stones 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.~~  
A cedar, 3 ins. diam., bears S. 37° 40' N., 53 ft. dist., marked T. 14 N., R. 15 W., S. 13, B.T.  
A cedar, 12 ins. diam., bears N. 40° 45' N., 90 ft. dist., marked T. 14 N., R. 15 W., S. 12, B.T.  
Flat, rolling  
Soil, gravelly, red ruts  
Dense cedar 36.71 ac.  
Boulders.  
S. 026° 31' on east ldy. of the Sps.  
Through dense cedar.  
10.81 Enter the cor. of secs. 7, 12, 13 and 14, which is a limestone, 6x10x3 ins. above ground, finely set, cracked and weathered as described by the

# Subdivision of Twp. 14 W., R. 15 E.

Prairie. surveyor general. I destroy all marks & re-mark, <sup>to sec. 12 and 13</sup>  
 Land, mountainous.  
 Soil, gravelly, 3rd rate.  
 Timber, cedars.  
 Mountainous land 12.48 chrs.

From the cor. of secs. 1, 2, 11 and 12, which is  
 a quartz stone,  $6 \times 9 \times 6$  ins. above ground, marked  
 and witnessed as described by the surveyor general.

Knowing I cannot intersect the E. bdy. of the Twp. within limit from  
 East, on true line, bet. secs. 1 and 12.

Over mountainous land, through timber.

- 6.70 Ridge, bears N. and S., elevation 5530 ft. Descend.
- 20.00 Leave ridge, enter wide hollow, drains N.
- 40.00 Set a cedar post, 3 ft. long, 3 ins. square, with  
 a charred stake 24 ins. in the ground, for  
<sup>and 12 on top</sup>  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. 1 or  $\frac{1}{2}$  face, dig  
 pits,  $18 \times 18 \times 12$  ins., E. and W. of post, 3 ft. dist.,  
 and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  
 $1\frac{1}{2}$  ft. high, N. of cor.
- 53.65 Hollow, drains N. W., ascend.
- 62.00 Ridge, bears N. W. and S. E., descend.
- 67.25 Hollow, drains N. W., ascend.
- 78.55 Intersect the E. bdy. of the Twp.

Set a lime stone,  $18 \times 6 \times 6$  ins., on top of ledge, in  
 mound of stone, for closing cor. of secs. 1 and 12, marked  
 N. W., with 5 grooves on S. and 1 groove on N.  
 face, and raise a mound of stone, 2 ft. base,  
 $1\frac{1}{2}$  ft. high, N. of cor., pits impracticable.  
 Land, mountainous.

Soil, gravelly, 2nd rate.

Timber, cedars.

Mountainous land 78.55 chrs.

Thence from

- 12.62 N.  $0^{\circ} 57' E.$ , on east bdy. of the Twp.; and at  
 Intersect the cor. of secs. 6, 7, 1 and 12  
 , which is a limestone,  $8 \times 12 \times 7$  ins.  
 above ground, firmly set, marked and  
 witnessed as described by the surveyor  
 general. I deface all marks theron per-

Subdivision of Twp. 14 N., R. 15 W.

Chains	<p>taining to secs. 1 and 12.          Land, mountainous.          Soil, rocky and rugged.          Timber, cedars.          Mountainous land 12.62 chs.</p> <p style="text-align: right;">July 4, 1902.</p>
	<p>July 5, 1902. At the cor. of secs. 34 and 35, on south bdy. of the Twp., hereinbefore described, at 0<sup>h</sup>38<sup>m</sup> a.m., I observe Polaris at E. elong. in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. N. of my station. Lat. 41° 53' 53".</p> <p>At. 6<sup>h</sup> 50<sup>m</sup> a.m., I lay off the azimuth of Polaris, 1° 38' to the west, and mark the Meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night. The magnetic bearing of the true meridian is N. 77° 49' W., which gives the magnetic declination 17° 49' E. N. 0° 2' W., bet. secs. 34 and 35.</p> <p>Over mountainous land.</p>
10.00	Quartz ridge, bears N.W. and S., elevation 7520 ft. Descend.
40.00	Set a quartz stone, 2x8x6 ins., 16 ins. in the ground, for 14 sec. cor., marked 14 on W. face, dig pits 18x18x 12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
44.00	Small hollow, drains S.W.
48.50	Small ridge, sloping S.W., enter cedars.
64.50	Hollow, drains S.W., elevation 6950 ft. Ascend.
77.00	Leave cedars.
80.00	Set a quartz stone, 12x9x5 ins., on bed rock, in mound of stone, for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, west of corner, pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.

# Subdivision of T. 14 N., R. 15 W.

Chiric.	Timber, cedars. Mountainous land 80.00 chs.
40.00	N. 89° 50' E. on a random line bet. secs. 26 and 35. Set temp. 14 sec. cor.
79.92	Intersect N. and S. line 28 lbs. S. of cor. of secs. 25, 26, 35, and 36. Hence, I run S. 89° 38' W. on true line bet. secs. 26 and 35. Ascend, over mountainous land.
14.50	Leave slope, enter upon ridge.
25.00	Ledges, on ridge bearing N. N. W. and E.
39.96	Set a shale rock, 20x10x4 ins., 15 ins. in the ground for 14 sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., quite impracticable.
	Descend.
65.00	Leave slope, descend gradually.
79.92	The cor. of secs. 26, 27, 34, and 35. Land, mountainous. Soil, gravelly and rocky, 2nd. rate. No timber. Mountainous land 79.92 chs.
	N. 0° 02' W. bet. secs. 26 and 27.
	Ascend.
2.00	Ridge, sloping W.
	Descend.
13.50	Enter aspens.
23.00	Hollow, draining N. W., leave aspens. Enter cedars, elev. 7050 ft.
39.50	Ridge, sloping W., leave cedars.
40.00	Set a quartz stone, 17x6x5 ins., 11 ins. in the ground, for 14 sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. N. of cor., quite impracticable.

Subdivision of T. 14 N., R. 15 W.

Chains	Descend.
45.50	Enter aspens.
48.00	Leave aspens.
53.00	Flat hollow, draining N. W. Enter cedars and ascend.
63.00	Ravine, draining S. W.
69.50	Leave dense cedars.
76.00	Top of rounded ridge, sloping N. W. Descend.
80.00	Set a shale rock, 15x7x6 ins., 10 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
	Land, mountainous. Soil, gravelly and rocky, 3rd. rate. Timber, aspens and pines, 45.00 chs. Mountainous land 80.00 chs.

	N. 89° 38' E. on a random line bet. secs. 23 and 26.
40.00	Set temp. 14 sec. cor.
79.60	Intersect the N. and S. line at cor. of sec. 23, 24, 25 and 26. Thence S. run S. 89° 38' W. on true line bet. secs. 23 and 26.
	Descend, over mountainous land.
28.50	Wash, draining north in Charleston canyon, road along W. side of wash, elev. 6720 ft.
	Ascend.
39.80	Set a quartz stone, 15x7x6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
73.00	Ridge, bears S. E. and N. W., elev. 7500 ft. Descend.
79.60	The cor. of secs. 22, 23, 26 and 27. Land, mountainous. Soil, gravelly and rocky, 3rd. rate. Timber, scattered cedars and mahogany. Mountainous land 79.60 chs.

# Subdivision of T. 14 N., R. 15 W.

	M. 0° 2' N. on a random line bet. secs. 22 and 23. Set temp. 1/4 sec. cor.
40.00	Intersect the E. and W. line at the cor. of secs. 14, 15, 22 and 23, which is a quartz stone, 18x12x5 ins., in mound of stone, marked, and witnessed as described by the surveyor general. Thence I run
44.10	S. 0° 2' E. on true line bet. secs. 22 and 23. Through cedars; over mountainous land. Leave cedars.
31.00	Set a quartz stone, 14x9x7 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
44.10	Ridge, bears N. W. and S. E., elev. 7550 ft., descend. Hollow, draining N. W., ascend. The cor. of secs. 22, 23, 26 and 27.
60.75	Land, mountainous.
73.25	Soil, gravelly and rocky, 3rd. rate.
84.50	Cedars, 31 chs. Mountainous land 84.50 chs.
	From the cor. of secs. 33 and 34, on S. bdy. of the Fp., heretofore described, I run N. 0° 2' W. bet. secs. 33 and 34. Descend over mountainous land.
18.00	Enter aspens.
26.50	Hollow, draining N. E., ascend.
27.50	Leave aspens.
40.00	On ridge, sloping E. Set a slate rock, 22x8x5 ins., on surface rock, in mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Descend.
48.50	Hollow, draining S. E., ascend.
62.00	Ridge, bearing S. E. and N. W., descend.
73.00	Leave slope.
80.00	Set a shale rock, 14x10x4 ins., 9 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches

Subdivision of T. 14 N., R. 15 W.

Chains on E. edge, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. pits impracticable.

Land, mountainous.

Soil, gravelly and rocky, 3rd. rate.

Timber, aspens.

Mountainous land 80.00 chs.

July 6, 1903.

July 7. For observation of Polaris see book D of this survey. N.  $89^{\circ}43'$  E. on a random line bet. secs. 27 and 34.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.00 Intersect N. and S. line at the cor. of secs. 26, 27, 34 and 35.  
thence I run

S.  $89^{\circ}43'$  N. on true line bet. secs. 27 and 34.

Descend, over mountainous land.

17.50 Enter dense cedars.

40.00 Set a shale rock,  $14 \times 9 \times 6$  ins., 9 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, dig pits,  $18 \times 18 \times 12$  ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

57.50 Leave cedars.

61.50 Johnson Creek, 8 lbs. wide, 4 ins. deep,  
flows N. in canyon, road on W. side of creek. Elev. 6475 ft.

House of Charles Randell bears N.  $12^{\circ}31'$ , 14 chs. dist.  
Ascend.

80.00 The cor. of secs. 27, 28, 33 and 34.

Land, mountainous.

Soil, gravelly and rocky, 3rd. rate.

Timber, cedars.

Mountainous land 80.00 chs.

N.  $0^{\circ}2'$  W. on a random line bet. secs. 27 and 28.

40.00 Sets temp.  $\frac{1}{4}$  sec. cor.

84.03 Intersect E. and W. line 21 lbs. N. of cor. of secs. 21, 22, 27 and 28 which is a quartz stone,  $6 \times 7 \times 5$  ins. above ground, marked and witnessed as described

by the surveyor general. Thence I run S.  $0^{\circ}7'$  W. on true line bet. secs. 27 and 28.

# Subdivision of T. 14 N., R. 15 W.

Chains descend, over mountainous land.

- 4.30 Fence, bears N.W. and S.E. road along E. side, in hollow, drains N.W., enter hayfield.
- 12.30 Johnson Creek, 5lks. wide, 6ins. deep, flows N.W., elev. 6410 ft.
- 14.00 Fence, bears E. and W., leave hayfield.
- 14.00 Ascend on bluffs, among dense cedars.
- 44.03 Set a shale rock, 15x15x4 ins., 10ins. in the ground, for 14 sec. cor., marked 14 on N. face, and raise a mound of stone, 2ft. base, 1 $\frac{1}{2}$  ft. high N. of cor., pits impracticable.
- 58.00 Quartz ledges, bears N.E., leave bluffs and cedars.
- 61.30 Brook, 1lk. wide, 1in. deep, flows N.E., elev. 6550 ft.
- 84.03 The cor. of secs. 27, 28, 33 and 34.
- <sup>1503</sup>  
11 Land, mountainous.  
Soil, rocky, partly sedimentary, 3rd.  $\frac{2}{3}$  2nd. rated.  
Timber, scrubby cedars and mahogany.  
Mountainous land 65.03 chs.

N. 89°43' E. on a random line bet. secs. 22 and 27.

- 40.00 Set temp. 14 sec. cor.
- 80.14 Intersect N. and S. line 4.09 chs. N. 0°03' W. of cor. of secs. 22, 23, 26 and 27. I destroy all marks thereon referring to secs. 22 & 27.  
Set a lime stone 15x11x8 ins., 10ins. in the ground, for cor. of secs. 22 and 27, marked with 2 notches on S. and E. edges, dig pits 24x24x12 ins. in both secs., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.; thence S. run S. 89°43' W. on true line bet. secs. 22 and 27.
- Over mountainous land; descend.
- 24.00 Hollow, draining S.W., ascend.
- 31.00 Ridge, bears S.W. and N.E.
- 35.00 Hollow, draining S.W.
- 38.00 Enter dense cedars.
- 40.07 Set a lime stone, 17x8x5 ins., 11ins. in the ground, for 14 sec. cor., marked 14 on N. face, and raise a mound of stone, 2ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor., pits impracticable.
- 72.50 Leave dense cedars.

Subdivision of T. 14 N., R. 15 W.

Chains 80.14	The cor. of secs. 21, 22, 27 and 28. Land mountainous. Soil, rocky, 3rd. rate. Timber, cedars and mahogany. Mountainous land 80.14 chs.
	From the cor. of <sup>secs</sup> 32 and 33, on S. bdy. of the Tr., heretofore described, I run $N.0^{\circ}3'W.$ bet. secs. 32 and 33. Ascend through cedars.
3.60	Ridge, <del>bare</del> sloping N.E., elev. 7900 ft., leave cedars.
40.00	Set a sand stone, $20 \times 6 \times 6$ ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, dig pits $18 \times 18 \times 12$ ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
49.50	Hollow, draining N.E.
54.50	Enter dense mahogany and cedars.
80.00	Set a quartz stone, $18 \times 9 \times 5$ ins., on bed rock, in mound of stone, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable. Elev. 7400 ft. Land, mountainous. Soil, rocky, 3rd. rate. Timber, scrubby cedars and mahogany. Mountainous land 80.00 chs.
	$N.89^{\circ}43' E.$ on a random line bet. secs. 28 and 33.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line <del>35</del> ths. N. of cor. of secs. 27, 28, 33 and 34. Thence run $S.89^{\circ}58' W.$ on true line bet. secs. 28 and 33.
10.50	Ascend, over mountainous land. Ridge, sloping N.E.
23.00	Hollow, draining N.E., ascend abruptly.
25.00	Spring, 4 chs. N., draining N.E. in hollow.
27.00	Ridge, sloping N.E., descend.
35.00	Enter dense aspens.
40.00	Set a shale rock, $18 \times 10 \times 3$ ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound

# Subdivision of Twp. 14 N., R. 15 W.

40.40	of stone, 2 ft. base, 112 ft. high, N of cor., quite impracticable.
	Asp. aspen, 5 ins. diam., bears S. 54° W., 21 lbs. dist., marked 14 S. 33, B.T.
	Asp. aspen, 4 ins. diam., bears N. 16° 44' W., 8 lbs. dist., marked 14 S. 28, B.T.
40.40	Brook, 2 lbs. wide, 1 in. deep, flows N.E. in hollow, spring 50 lbs. up hollow; eleva- tion 6710 ft.
41.50	Brook, 2 lbs. wide, 2 ins. deep, flows N.E. in hollow.
45.00	Leaves aspens and asured.
50.50	Enter dense cedars.
50.00	The cor. of secs. 28, 29, 32 and 33. Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, cedar and aspens. Mountainous land 8000 ft.

July 7, 1902.

	July 9, 1902.
	At this cor. at 6 h 23 m. a.m., I mounted S. ob- serve Polaris at magnetic elongation, in ac- cordance with instructions in the manual, and mark a point in the line thus de- termined by a black diamond in a wooden peg set in the ground, 500 ft. north of my station.
	Latitude $41^{\circ} 54' 45''$ ,
	At 7 h 10 m. a.m., I lay off the azimuth of Polaris $1^{\circ} 37.9$ to the west, and mark the true meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is $N. 17^{\circ} 48' W.$ , which gives the mag- netic declination $17^{\circ} 48' E.$
40.00	Then I run N. $0^{\circ} 3' W.$ , on a random line, bet. secs. 28 and 29. Set temp. 114 sec. cor.

Subdivision of Tps. 14 N., R. 15 W.

Station

82.95 Intersect the E. and S. line 172 chs. N.  $89^{\circ} 20' E.$   
from the cor. of secs. 20, 21, 28 and 29, herein  
before described.

& destroy all marks thereon referring  
to secs. 28 and 29.

Set a sand stone,  $15 \times 10 \times 5$  ins., 10 ins. in the  
ground, for closing cor. of secs. 28 and  
29, marked c. c. on S., with 2 grooves on  
west and 4 grooves on east face, and  
raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$   
ft. high, south of corner, pits imprac-  
ticable.

Thence I run

S.  $0^{\circ} 3' E.$ , on true line, bet. secs. 28 and 29.

Over mountainous land.

Descending.

18.50 Hollow, drains N. W.

Ascend.

42.95 Set a limestone,  $15 \times 12 \times 4$  ins., 10 ins. in the  
ground, for 44 sec. cor., marked 44 on  
W. face, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor., pits im-  
practicable.

80.50 Ridge, bears N. E. and S. W.

82.95 The cor. of secs. 28, 29, 32 and 33.

Land, mountainous.

Soil, gravelly and rocky, 3rd rate.

No timber.

Mountainous land 82.95 chs.

From the cor. of secs. 31 and 32, on south  
boundary of the Tps., herein before described,  
I run

E. on S. W., bet. secs. 31 and 32.

Over mountainous land.

Ascend.

33.05 Road, bears N. E. and S. W.

Over mountain.

Set a granite stone,  $22 \times 19 \times 5$  ins., 16 ins. in the  
ground, for 44 sec. cor., marked 44 on W.

Subdivision of Twp. 14 N., R. 15 E.

Drains.

face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor., pits impracticable.

45.00 Spring and shearing pen 15 chs. east.

60.50 Spring, 2 chs. east, elevation 5180 ft.

80.00 Set a quartz stone,  $21 \times 6 \times 5$  ins., 15 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor., pits impracticable.

Land, mountainous and rolling.

Soil, rocky and gravelly, 3rd rate.

No timber, but aspen brush.

Mountainous land 38.25 chs.

N.  $89^{\circ}43' E$ , on random line, bet. secs. 29 and 32.

40.00 Set temp. 14 sec. cor.

80.00 Intersect N. and S. line 25 lbs. N. of the cor. of secs. 28, 29, 32 and 33.

Fence, from

S.  $89^{\circ}54' W$ , on true line, bet. secs. 29 and 32.

Through dense cedars and mahogany.

Ascend.

1.50 Ridge, bears S.W. and N.E.

Descend.

40.00 On north side of ravine, draining N.W.

Set a slate rock,  $15 \times 9 \times 5$  ins., 10 ins. in the ground, for 14 sec. cor., marked 14 on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor., pits impracticable. Elevation 6880 ft.

42.50 Hollow, drains N.W.

Leave cedars and mountains.

61.00 Road, bears S.W. and N.E.

67.50 Spring, 2.50 chs. S.

80.00 Thru cor. of secs. 29, 30, 31 and 32

Land, mountainous.

Soil, gravelly, partly rocky, 2nd and 3rd rates.

Timber, cedars.

Mountainous land 42.50 chs.

$\frac{125}{315}$

Subdivision of Twp. 14 N., R. 15 W.

Chains

$89^{\circ}43'9\frac{1}{4}$ , on random line, bet. secs. 30 and 31.

40.00 Set temp. 14 sec. corr.

83.05 Intersect the west boundary of thl. tps. 29, 30.  
S. of the cor. of secs. 25, 30, 31 and 36, herein  
before described.

Thence I run

$89^{\circ}55'8$ , on true line, bet. secs. 30 and 31.

Over rolling land:

9.25 Brook, 1 lk. wide, 1 in. deep flows N.E.

16.00 Road, bears S.W. and N.E.

18.00 Enter dense aspens.

32.50 Leave dense aspens.

43.05 Set a slate rock,  $17 \times 9 \times 3$  ins., 11 ins. in the  
ground, for 14 sec. cor., marked 14  
on N. face, and raise a mound of  
stone 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.,  
pits impracticable.

47.50 Road, bears N.E. and S.W.

83.05 The cor. of secs. 29, 30, 31 and 32.

<sup>14 5/8</sup>  
<sup>15 1/2</sup>  
<sup>15</sup>  
Land, rolling.

Soil, gravelly, 2nd rate.

Dense aspens 14.50 chs.

$89^{\circ}4'9\frac{1}{4}$ , on random line, bet. secs. 29 and 30.

40.00 Set temp. 14 sec. cor.

81.50 Intersect the E. and W. line 3.51 chs.  $89^{\circ}5'8$  from the cor. of  
secs. 19, 20, 29 and 30, which is a stone, herein before described.

I destroy all marks theron referring to secs. 29 and 30.

Set a quartz stone,  $15 \times 10 \times 5$  ins., 10 ins. in the ground, for closing  
cor. of secs. 29 and 30, marked c.c. on S. with 4 grooves on  
N. and 5 grooves on S. faces, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor., pits impracticable.

Thence I run

$89^{\circ}4'8$ , on true line, bet. secs. 29 and 30.

39.70 Hollow, drains N.W.

41.50 Set a quartz stone,  $16 \times 8 \times 4$  ins., 11 ins. in the ground for 14 sec.  
cor., marked 14 on N. face, and raise a mound of stone, 2 ft.  
base,  $1\frac{1}{2}$  ft. high, N. of cor., pits impracticable.

Second.

41.50 The cor. of secs. 29, 30, 31 and 32.

Land, rolling.

Soil, gravelly, 2nd rate. No number.

July 9, 1902.

Subdivision of Twp. 14 N., R. 15 W.

Boundaries of Fractional Subdivision  
of  
Twp. 14 N., R. 15 W.  
Latitudes, departures, and closing errors.

Line designated	True bear.	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
South bdy.	S. 89° 50' W.	162.95	....	0.47	....	162.95
" "	S. 89° 43' W.	319.82	....	1.58	....	319.82
West bdy.	N. 0° 17' W.	120.90	120.90	....	....	0.60
" "	N.	40.62	40.62	....	....	....
North bdy.	N. 89° 51' E.	80.14	0.21	....	80.14	....
" "	N. 89° 15' E.	81.38	1.07	....	81.38	....
" "	N. 89° 20' E.	81.75	0.95	....	81.74	....
" "	N. 89° 43' E.	80.14	0.40	....	80.14	....
West bdy.	N. 0° 2' W.	80.01	80.01	....	....	0.05
North bdy.	N. 89° 57' E.	80.00	0.07	....	80.00	....
West bdy.	S. 0° 14' W.	240.00	240.00	....	....	0.98
North bdy.	E.	80.00	....	....	80.00	....
East bdy.	S. 0° 26' W.	67.45	....	67.45	....	0.51
" "	S. 0° 57' W.	80.04	....	80.03	....	1.33
" "	S. 0° 26' E.	7996	....	7996	0.60	....
" "	S. 1° 38' E.	80.05	....	80.02	2.28	....
" "	S.	175.50	....	175.50	....	....
Convergency.		0.31	....	....	0.31	....
Errors in Lat & Dep'			484.23	485.01	486.59	486.24
				484.23	486.24	
				0.78	0.85	

Subdivision of Twp. 14 N., R. 15 E.

General Description.

The land embraced in this survey is practically all mountainous, and most valuable for grazing and timber.

The timber consists of cedar, pine, manzanita and aspens. There is sufficient water for stock, but otherwise the water is claimed for irrigation in the valley below.

There is one settler within the survey, Charles Randell, on the S. 1/4. 14 of sec. 27, with improvements consisting of dwelling house, stable and corral, valued at \$400.

Numerous mineral claims have been staked, mostly in the south eastern part of the Twp., but the claims appear to have been abandoned or to be yet prospective. For these reasons no land within the survey is returned as mineral land.

Nephi P. Anderson,  
U. S. Deputy Surveyor.

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# FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by the  
United States Deputy Surveyor, to assist in running, measuring, and  
marking the lines and corners described in the foregoing field notes of the survey of  
the tract of land described in the warrant, and the respective capacities in which they acted:

John A. Thompson, Chairman,

John A. Thompson, Chairman,

John A. Thompson, Mountman,

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

United States Deputy Surveyor, in surveying all

the parts of the tract of land

of the

Survey and laid out or run the boundaries and corners, and measured the distances, and that said survey was made, in all respects, to the best of our knowledge, and belief, well and faithfully performed, and the same were made and certified according to the instructions furnished by the United States Surveyor and the

Chairman,

Chairwoman,

Mountman,

Mountman,

Mountman,

Mountman,

Mountman,

Mountman,

Sworn and sworn to before me this

190

666666  
666666  
666666

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for ..... bearing date of the ..... day of ..... 190 ..... I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

*Fa fidelis affidavit sub loco & P. J. 13. D. 11. 19. D.*

..... of the ..... meridian, in the ..... of ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor.*

Subscribed by said ..... and sworn to before me  
this ..... day of ..... 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

*Valley City, April 3, 1906*  
*The foregoing field notes of the survey of the subdivision of*  
*Township 14 North Range 15 West of the 3rd Meridian,*  
*Wyoming.*

executed by ..... *Nephi L. Readasant*  
under his contract No. 245, dated ..... April 12, 1905, having been  
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Thomas Hull*  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in .....  
has been correctly copied from the original notes on file in this office.

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BOOK A-332

# FIELD NOTES

OF THE SURVEY OF THE

*Retracements of Subdivisions*

*etc.*

*Sec. 14, T. R. 15 N.*

of the *Callie Lake Baseline Meridian,*  
*State of Idaho.*

AS SURVEYED BY

*Nelsie P. Bradshaw*, United States Deputy Surveyor,  
under his Contract No. 2445, dated April 1<sup>st</sup>, 1901.  
Survey commenced *July 4<sup>th</sup>*, 1902.  
Survey completed *July 7<sup>th</sup>*, 1902.

*Done 6<sup>th</sup> 1902*

NAMES AND DUTIES OF ASSISTANTS.

John J. Christensen,

Chairman

Eli Christensen,

Chairman

William N. Lee,

Manager

Lewis O. Johnson,

Armam.

John J. Bingham,

Flagman

Volume

#

R0332

BOOK A-332

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*Meanders Page*.....

**PRELIMINARY OATHS OF ASSISTANTS.**

WE, John S. Christensen and Eli Christensen,

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Retracements of subdivisions in Twp. 14 N., R. 15 and 16 W., and Twp. 11 N., R. 19 W., Salt Lake Base and Meridian, Utah

John S. Christensen, Chainman.  
Eli Christensen, Chainman.

Subscribed and sworn to before me this 19

day of June, 1902.



J D Call  
Notary Public:

My commission expires,

Nov. 18th 1905

WE, I. William N. Lee

and

William N. Lee, Moundman.

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Retracements of subdivisions in Twp. 14 N., R. 15 and 16 W., and Twp. 11 N., R. 19 W., Salt Lake Base and Meridian, Utah

William N. Lee, Moundman.

William N. Lee, Moundman.

Subscribed and sworn to before me this 19

day of June, 1902.



J D Call  
Notary Public.

My commission expires,

Nov. 18th 1905

WE, Lewis O. Johnson

and

Lewis O. Johnson, Axman.

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Retracements of subdivisions in Twp. 14 N., R. 15 and 16 W., and Twp. 11 N., R. 19 W., Salt Lake Base and Meridian, Utah

Lewis O. Johnson, Axman.

Lewis O. Johnson, Axman.

Subscribed and sworn to before me this 19

day of June, 1902.



J D Call  
Notary Public.

My commission expires,

Nov. 18th 1905

I, John S. Birmingham, do solemnly swear that we will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

Retracements of subdivisions in Twp. 14 N., R. 15 and 16 W., and Twp. 11 N., R. 19 W., Salt Lake Base and Meridian, Utah

John S. Birmingham, Flagman.

Subscribed and sworn to before me this 19

day of June, 1902.



J D Call  
Notary Public.

My commission expires,

Nov. 18th 1905

Retracement of Subdivisions in Twp. 14 N., R. 15 W.

Chains	<p>Survey commenced July 4, 1902, and executed with a W. &amp; S. E. Gurley engineers transit, described in notes of subdivision of Twp. 14 N., R. 15 W. Book C. From the cor. of secs. 13, 14, 23 and 24, here in before described, and at which I made an observation of Polaris July 4, 1902, I run</p>
	<p>North, bet. secs. 13 and 14. Over mountainous land. Descend through cedars.</p>
40.06	<p>I fall 16 lks. east of the old <math>\frac{1}{4}</math> sec. cor., which is a quartz stone, 9x9x6 ins. above ground, marked and witnessed as described by the surveyor general.</p>
80.08	<p>Intersect the E. and W. line 33 lks. east of the cor. of secs. 11, 12, 13 and 14, which is a quartz stone, 6x6x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.</p>
	<p>The true bearing of this <sup>line.</sup> is therefore N. 0° 14' W. Land, rolling and ridgy. Soil, gravelly, 2nd and 3rd rate. Timber cedars.</p>
	<p>I continue this course and run N. 0° 14' W., bet. secs. 11 and 12. Over ridges</p>
39.93	<p>I find the old <math>\frac{1}{4}</math> sec. cor., which is a quartz stone, 7x8x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.</p>
79.94	<p>Intersect the E. and W. line at the cor. of secs. 1, 2, 11 and 12, which is a quartz stone, 6x9x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.</p>
	<p>Land, rolling and ridgy. Soil, sandy and gravelly, 2nd rate. No timber.</p>

Retracement of boundaries in Twp. 14 N., Range 2 E.

Chain N. 5° 14' W., betw. sec. 1 and 2.

Dives ridge.

33.98 S find the old 1/4 sec. cor., which is a limestone, 6 x 16 x 6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

77.98 S intersect the E. and S. line at the cor. of secs. 1, 2, 35 and 36, which is a quartz stone, 9 x 14 x 6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

Land, ridgy.

Soil, sandy and gravelly, and rate.

No timber.

July 4, 1902.

July 7, 1902.

At the cor. of secs. 21, 22, 27 and 28, which is a quartz stone, 6 x 7 x 5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at 0<sup>4</sup> 30<sup>m</sup> 8<sup>s</sup> a.m., U. M. T. I observe Polaris at eastern elong. in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. N. of my station. Latitude 41° 55' 37" N.

At 7<sup>h</sup> 15<sup>m</sup> a.m., I lay off the azimuth of Polaris 1° 38' to the west, and mark the meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night. The magnetic bearing of the true meridian is N. 17° 50' 7", which gives the magnetic declination 17° 50' 8".

Distance from,

West betw. secs. 21 and 28.

Orientating group, through 21 and 28.

46.00 S searched diligently for the old 1/4 sec. cor., but find no traces of it.

81.75 S intersect the N. and S. line 94 th. C. of the cor. of secs. 20, 21, 28 and 29, which is

Retracement of Subdivisions in Twp. 14 N., R. 15 W.

Claims	<p>a blue limestone, <math>5 \times 7 \times 6</math> ins. above ground, firmly set, marked and witnessed as described by the surveyor general.          The true bearing of this line is therefore S. <math>89^{\circ} 20' W.</math>          Land, ridgy to mountainous.          Soil, gravelly and rocky, 3rd rate.          Timber, pines</p> <hr/>
40.00	<p>West, bet. secs. 20 and 29.          Over rolling ground, through timber.          I search diligently for the old 1/4 sec. cor., but find no traces of it.</p>
81.39 <sup>3,0</sup>	<p>Intersect the N. and S. line 1.06 lks. N. of the cor. of secs. 19, 20, 29 and 30, which is a quartz stone, <math>6 \times 6 \times 5</math> ins. above ground, firmly set, marked and witnessed as described by the surveyor general.          The true bearing of this line is therefore S. <math>89^{\circ} 15' W.</math>          Land, heavy rolling.          Soil, gravelly, 3rd rate.          Timber, cedars and pines.</p> <hr/>
40.24	<p>West, bet. secs. 19 and 30.          Over ridges, through timber.          I fall 11 lks. N. of the old 1/4 sec. cor., which is a sand stone, <math>7 \times 11 \times 8</math> ins. above ground, firmly set, marked and witnessed as described by the surveyor general.</p>
80.14	<p>Intersect the west boundary of the Twp. 21 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is a quartz stone, firmly set, hereinafter described.          The true bearing of this line is therefore S. <math>89^{\circ} 51' W.</math>          Land, ridgy to mountainous.          Soil, gravelly, 3rd rate.          Timber, cedars and pines.</p>

July 7, 1902.

Nephi P. Anderson,  
U. S. Deputy Surveyor.

For general description see notes of subdivision of Twp. 14 N., R. 15 W.

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# FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by

United States Deputy Surveyor, to assist in running, surveying, and  
marking the lines and corners described in the foregoing field notes of the survey of  
the tract of land described in the accompanying affidavit, and their  
names and addresses, and the respective capacities in which they acted:

*Final affidavits for book M. page 84*

*Chas. A. Nichols*

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

United States Deputy Surveyor, in surveying all  
the parts or portions of the

land described in the foregoing field notes, which are represented  
as being surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for

the survey of the meridian, and the lines of the sections, which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for

*Final affidavits for book M. page 84*

*Chas. A. Nichols*

*Chas. A. Nichols*

*Chas. A. Nichols*

*Chas. A. Nichols*

subscribed and sworn to before me this

day of , A. D. , 1860.

*C. D. Nichols  
O. L. Nichols  
C. D. Nichols*

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date of the day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_

*For final affidavits see book No. II. M. R. G. C.*

of the \_\_\_\_\_

meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Salt Lake City, Utah April 3, 1906, 1906*  
The foregoing field notes of the survey of \_\_\_\_\_  
~~the subdivisional lines of~~  
~~Township 14 North Range 15 West of the Salt Lake~~  
~~Base & Meridian, Utah.~~

executed by \_\_\_\_\_  
Neffie P. Anderson  
under his contract No. 2445, dated April 12, 1901, 1901, having been  
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Thomas Hull*

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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E

BOOK A-332

## FIELD NOTES

OF THE SURVEY OF THE

*West Boundary**S. 14<sup>th</sup> R. 15<sup>th</sup>*

of the *Salina Basin and Meridian,*  
*State of Kansas.*

AS SURVEYED BY

*Melville P. Baddeley*, United States Deputy Surveyor,  
under his Contract No. *265*, dated *July 8*, 1901.  
Survey commenced *July 8*, 1901.  
Survey completed *July 8*, 1901.

*Scale 1:64,000*

NAMES AND DUTIES OF ASSISTANTS.

John S. Christensen, Chaminian  
Eli Christensen, Chaminian.  
William N. Lee, Moundman  
Lewis O. Johnson, Axman  
Johnson L. Bingham, Flagman.

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INDEX DIAGRAM.

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*Meanders Page* \_\_\_\_\_

PRELIMINARY OATHS OF ASSISTANTS.

WE, John S. Christensen and Eli Christensen

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

West Bdy. of Twp. 14 N., R. 15 W., and the S. Bdy. of Twp. 14 N., R. 16 W., Salt Lake Base and Meridian, Utah

John S. Christensen, Chainman.  
Eli Christensen, Chainman.

Subscribed and sworn to before me this 19<sup>th</sup>  
day of June, 1902 }



J. D. Call

Notary Public

My commission expires,

Nov. 16th 1905

WE, William N. Lee

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the

West Bdy. of Twp. 14 N., R. 15 W., and the S. Bdy. of Twp. 14 N., R. 16 W., Salt Lake Base and Meridian, Utah

William N. Lee

Moundman.

Subscribed and sworn to before me this 19<sup>th</sup>

day of June, 1902 }



J. D. Call

Notary Public

My commission expires,

Nov. 16th 1905

WE, Lewis O. Johnson

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the

West Bdy. of Twp. 14 N., R. 15 W., and the S. Bdy. of Twp. 14 N., R. 16 W., Salt Lake Base and Meridian, Utah

Lewis O. Johnson

Axman.

Subscribed and sworn to before me this 19<sup>th</sup>

day of June, 1902 }



J. D. Call

Notary Public

My commission expires,

Nov. 16th 1905

I, John S. Bingham

, do solemnly swear that I will well and truly

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the West Bdy. of Twp. 14 N., R. 15 W., and the S. Bdy. of Twp. 14 N., R. 16 W., Salt Lake Base and

Meridian, Utah.

John S. Bingham Flagman.

Subscribed and sworn to before me this 19<sup>th</sup>

day of June, 1902 }



J. D. Call

Notary Public

My commission expires,

Nov. 16th 1905

West Boundary of Twp. 14 N., R. 15. W.

Survey commenced July 8, 1902, and executed with a W. and L. C. Shirley engineer's transit, described in the subdivision notes of this Twp Book C.  
 At the cor. of Twp. 13 and 14 N., R. 15 and 16 W., which is a quartz stone,  $14 \times 7 \times 6$  ins. above ground, firmly set, marked and witnessed as described by the surveyor general, At 0<sup>h</sup> 26<sup>m</sup> 8<sup>s</sup> a.m., l.m.t., I observe Polaris at eastern elong. in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven in a wooden plug set firmly in the ground 5 chs. north of my station. Lat.  $41^{\circ} 53' 53''$  N., long.  $113^{\circ} 38' 23''$  W. At 7<sup>h</sup> a.m. I lay off the azimuth of Polaris  $1^{\circ} 38.8'$  to the W., and mark the true meridian thus determined by a cross on a rock firmly set in the ground, west of the point established last night. The magnetic bearing of the true meridian is  $N. 17^{\circ} 42' W.$ , which gives the magnetic declination  $17^{\circ} 42' E.$

Thence S run

North, on random line, bet. R. 15 and 16 W., setting times 44 sec. and sec. cor. at intervals of 40.00 chs., and at 120.90 chs. falls 60 chs. east of the 44 sec. cor. of secs. 25 and 30, which is a quartz stone,  $14 \times 6 \times 5$  ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

Thence S run

$8.0^{\circ} 17' E.$ , on true line, bet. secs. 25 and 30.

Over mountainous land.

Ascend.

4.80 Ridge, sloping N. W.

Descend on precipitous slope.

40.90 Set a slate rock,  $17 \times 7 \times 5$  ins., 11 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges, and raise a mound of stones, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor., pits impracticable.

Land, mountainous.

Soil, gravelly and rocky, 3rd rate.

West Bdy. of Twp. 14 N. R. 15 W.

Chain	Timber, cedars, scattered. Mountainous land 40.90 chs.
	S. 0° 17' E., bet. sec. 31 and 36. Over mountainous land.
2.60	Ravine, drains N.E., ascend
17.00	Low ridge, slopes N.E., descend.
28.00	Brook, 3 lbs. wide, 2 ins. deep, flows N.E. Enter aspens.
40.00	Set a slate rock, 14 x 8 x 5 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 14 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, 1/4 of cor., fits impracticable.
42.00	Recross brook, flows N.E.
60.00	Leave aspens.
67.00	Road, bears N.E. and S.W.
80.00	Intersect the cor. of Twp. 13 and 14 N., R. 15 and 16 W. Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, aspens. Mountainous land 80.00 chs.

July 8, 1902.

Nephi P. Anderson,  
U.S. Deputy Surveyor.

For general description see notes  
of subdivisions of Twp. 14 N., R. 15 W.

**THE OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**

**LIST OF NAMES.**

A list of the names of the individuals employed by  
United States Deputy Surveyor, to assist in running, connecting, and  
closing the lines and corners described in the foregoing field notes of the survey of  
under the respective capacities in which they acted:

Chairman,

Chairman,

Mountaineer,

Mountaineer,

Armenia,

Armenia,

Flagman,

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all  
the parts or portions of the

of the

meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
other monuments established, according to the instructions furnished by the United States Surveyor  
General for

Chairman,

Chairman,

Mountaineer,

Mountaineer,

Armenia,

Armenia,

Flagman,

subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 180\_\_\_\_\_



**FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.**

I, John G. French, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from the United States Surveyor General for ..... bearing date of the ..... day of ..... 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

*Special affidavit see back G. French P. S. O.*

..... of the ..... meridian, in the ..... of ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor.*

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 }

800000  
S. A. L. G.  
800000

**APPROVAL.**

**OFFICE OF THE UNITED STATES SURVEYOR GENERAL.**

*John G. French, April 3, 1906, 190*

The foregoing field notes of the survey of *the South Boundary of Township No. 10, Range 10, West of the 5th Meridian, Board & Municipal, Colorado* executed by .....

executed by *John G. French* under his contract No. 1555, dated ..... April 12, 1901, 190 , having been officially examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*George E. Hall*  
*United States Surveyor General.*

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

*United States Surveyor General.*

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U.S.F.

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BOOK A-332

## FIELD NOTES

OF THE SURVEY OF THE

*Retracement of the West Boundary  
of  
Sec. 14 N., R. 15 W.*

*of the Salt Lake Base and Meridian,  
State of Idaho,*

AS SURVEYED BY

*Nephi P. Anderson, United States Deputy Surveyor,  
under his Contract No. 245, dated April 12, 1901.*

*Survey commenced July 8, 1902.*

*Survey completed July 8, 1902.*

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*Line 0.4062*

NAMES AND DUTIES OF ASSISTANTS.

John S. Christensen	Chairman
Eli Christensen	Chairman
William W. Lee	Manager
Lewis O. Johnson	Manager
John S. Bingham	Flagman

In charge of all the Park at Iguaçu R.R. or

BOOK A-332

INDEX DIAGRAM.

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Meanders Page

# PRELIMINARY OATHS OF ASSISTANTS.

We, ..... and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by clicking or dropping the same; we will report the true distances to all notable objects, and the true length of all lines that we may be measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainmen.

....., Chainmen.

Subscribed and sworn to before me this

day of ..... 190 }



We, ..... and do solemnly swear that we will well and truly perform the duties of moundmen in the establishing of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundmen.

....., Moundmen.

Subscribed and sworn to before me this

day of ..... 190 }



We, ..... and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axmen.

Subscribed and sworn to before me this

day of ..... 190 }



I, ..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this

day of ..... 190 }



Retracement of W. bdy. of Twp. 14 N., R. 15 W.

Survey commenced July 8, 1902 and  
executed <sup>with</sup> W. & S. E. Survey transit,  
described in notes of subdivision of  
Twp. 14 N., R. 15 W. Book "C"  
S commences at the  $\frac{1}{4}$  sec. cor. of secs.  
25 and 30, which is a stone, herein  
before described, and run  
North bet. secs. 25 and 30.  
Over ridges, through cedars.  
40.62 Intersect the E. and W. line at the cor.  
of secs. 19, 24, 25 and 30, which is  
a quartz stone,  $5 \times 14 \times 4$  ins. above  
ground, firmly set, marked and  
witnessed as described by the sur-  
veyor general.  
Land, ridgy.  
Soil, gravelly and rocky, 3rd rate.  
Timber, cedars.

July 8, 1902.  
Nephi P. Anderson,  
U.S. Deputy Surveyor.

For general description see notes  
of subdivision of Twp. 14 N., R. 15 W.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Nephi P. Anderson,

United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Retracements of West ldy. of Twp. 14 N., R. 14 W., and West ldy. of Twp. 14 N., R. 15 W., Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

John S. Christensen, Chairman.

Eli Christensen, Chairman.

William W. Lee, Moundman.

Lewis O. Johnson, Moundman.

John S. Bingham, Axman.

John S. Bingham, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson,

United States Deputy Surveyor, in surveying all those parts or portions of the Retracements of West ldy. of Twp. 14 N., R. 14 W., and West ldy. of Twp. 14 N., R. 15 W.

of the Salt Lake Base and Meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

John S. Christensen, Chairman.

Eli Christensen, Chairman.

William W. Lee, Moundman.

, Moundman.

Lewis O. Johnson, Axman.

John S. Bingham, Flagman.

Subscribed and sworn to before me this 25

day of January, 1905.



J. D. Call  
Notary Public  
My commission expires  
Nov. 1st 1905

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson,

United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 12 day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Retracement of West. bdy. of Twp. N. R. 14 N., and West. bdy. of Twp. 14 N., R. 15 W.

Base and ~~in took a~~ meridian, in the State of Utah, which are represented in the foregoing field notes as having been ~~surveyed~~ by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the State of Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Nephi P. Anderson

United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson, and sworn to before me }  
this 9th day of February, 1906. }



N. J. Valentine, Clerk District Court  
by Lorenzo W. Anderson, Deputy

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 3, 1906

The foregoing field notes of the survey of the North Boundary of Township 14 North Range 15 West of the Salt Lake Baseline ~~retracement~~ retracement of the North Boundary of Township 14 North Range 15 West of the Salt Lake Baseline retracement

executed by

under his contract No. 245, dated April 12, 1901, 1891, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas H. Bell  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

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BOOK A-332

## FIELD NOTES

OF THE SURVEY OF THE

*South Boundary**of**Sp. 14 N., R. 16 W.*

of the Salt Lake Base and Meridian,  
 State of Utah,

AS SURVEYED BY

*Nephi P. Anderson*, United States Deputy Surveyor,

Under his Contract No. 245, dated April 12, 1901.

Survey commenced July 10, 1902.

Survey completed July 10, 1902.

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*Augt 4 1904 50 ✓*

10.00	surveys	11.00	14.00	10.00
-------	---------	-------	-------	-------

NAMES AND DUTIES OF ASSISTANTS.

James L. Christensen,

Chairman.

Eli Christensen,

Chairman

William N. Lee,

Manager.

Lewis O. Johnson,

Armorer.

John L. Bingham,

Flagman.

For pecuniary affairs see Book E Pg 14 M 15 87

## INDEX DIAGRAM.

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Meanders Page \_\_\_\_\_

PRELIMINARY OATHS OF ASSISTANTS.

We, ..... and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assay measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chain

, Chain

Subscribed and sworn to before me this }  
day of , 190 }



We, ..... and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Mound

, Mound

Subscribed and sworn to before me this }  
day of , 190 }



We, ..... and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axm

, Axm

Subscribed and sworn to before me this }  
day of , 190 }



I, ..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagma

Subscribed and sworn to before me this }  
day of , 190 }



South Boundary of Twp. 14 N., R. 15 1/4.

Survey commenced July 10, 1902,  
and executed with a H. & L. E. Gurley  
engineer transit, described in the notes  
of the subdivision of T. 14 N., R. 15 1/4. Broth C.

I commence at the cor. of Twp. 13 3/4  
14 N., R. 15 and 16 1/4, which is a quartzite  
stone,  $14 \times 7 \times 6$  ins. above ground, firmly  
set, marked and witnessed as described  
by the surveyor general, and at which  
an observation on Polaris was made  
on the 8th inst., described in notes of H.  
Bdy. of T. 14 N., R. 15 1/4, whence I run  
West on a random line along the south boundary  
of the Twp., setting <sup>temporary</sup> sec. and sec. corners  
at intervals of 40.00 chs., and at 324.50 chs. intersect  
the cor. of secs. 32 and 33, which is a quartz  
stone,  $10 \times 6 \times 4$  ins. above ground, marked and  
witnessed as described by the surveyor general.

Hence I run

East, on true line on S. boundary of Sec. 33.

Ascend on S.W. slope of mountain

44.50 Set a sandstone,  $16 \times 10 \times 6$  ins., 11 ins. in the  
ground, for 1/4 sec. cor., marked 1/4 on N. face,  
and raise a mound of stone, 2 ft. base,  
 $1\frac{1}{2}$  ft. high, N. of cor., quite impracticable.

69.50 Hollow, draining S. W.

84.50 Set a quartz stone,  $17 \times 9 \times 5$  ins., 12 ins. in the  
ground, for cor. of secs. 33 and 34, marked  
with 3 notches on E. and W. edges, and  
raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$   
ft. high, N. of cor., quite impracticable.

Land, mountainous.

Soil, gravelly and rocky, 3rd. rate.

No timber.

Mountainous land 84.50 chs.

East, on south bdy. of Sec. 34.

Ascend on mountain slope.

22.00 Summit, bears N. and S., elevation, by an-  
eroid, 7500 ft., descend.

40.00 Set a sandstone,  $19 \times 9 \times 5$  ins., 14 ins. in the

South Boundary of T. 14 N. R. 16 W.

Chain ground, for 1/4 sec. cor. marked 1/4 on N. face, dig pit, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. Descend on steep slope.

75.50 Top of lower ridge, sloping N.E.

80.00 Set a sand stone, 14x10x5 ins., 9 ins. in the ground, for cor. of secs. 34 and 35, marked with 4 notches on W. and two notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable. Elevation 7030 ft.

Sand, mountainous.

Soil, rocky and gravelly, 3rd. rate.

No timber.

Mountainous land, 80.00 chs.

East, on south boundary of Sec. 35.

Descend on mountainous slope.

6.50 Hollow, draining N.E., ascend.

40.00 Set a quartz stone, 16x10x4 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.

52.00 Tops of ridge, sloping N., descend

80.00 In aspen brush.

Set a sandstone, 21x5x5 ins., 15 ins. in the ground, for cor. of secs. 35 and 36, marked with 5 notches on W. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable, elevation 6690 ft.

Sand, mountainous.

Soil, gravelly and rocky, 3rd. rate.

No timber, aspen brush in patches.

Mountainous land 80.00 chs.

East, on south boundary of Sec. 36.

Descend on northern slope of mountain.

35.00 Small spring 5.00 chs. S.

40.00 Set a quartz stone, 15x10x4 ins., 10 ins. in the

South Boundary of T. 14 N., R. 16 W.

Chains	ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
42.00	Open hollow, draining N. N.E.
56.50	Brook, 1 lk. wide, 1 in. deep, flows N. N.E.
57.50	Road, bears S. E. and N. N.E.
80.00	The cor. of Twp 13 S 14 W., Rs. 15 and 16 W. Land, mountainous. Soil, gravelly, partly rocky, 3rd. rate. No timber, aspen brush in patches. Mountainous land 80.00 chs.

July 10, 1902.

Nephi P. Anderson,  
U. S. Deputy Surveyor.

For general description see notes of subdivisions of this township.

Nephi P. Anderson,  
U. S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Nephilai P. Anderson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of west boundary of Twp. 14 N., R. 15 W., and south Boundary of Twp. 14 N., R. 16 W., Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

John S. Christensen, Chainman.  
Eli Christensen, Chainman.  
William W. Lee, Moundman.  
Lewis O. Johnson, Moundman.  
John S. Bingham, Axman.  
John S. Bingham, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephilai P. Anderson, United States Deputy Surveyor, in surveying all those parts or portions of the west boundary of Twp. 14 N., R. 15 W., and south Boundary of Twp. 14 N., R. 16 W.

base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

John S. Christensen, Chainman.  
Eli Christensen, Chainman.  
William W. Lee, Moundman.  
Lewis O. Johnson, Moundman.  
John S. Bingham, Axman.  
John S. Bingham, Flagman.

scribed and sworn to before me this 25  
day of January, 1905. }

SEAL

J. D. Carr  
Notary Public  
Amherstburg, Ontario  
Nov. 10th 1905

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, S. J. Valentine, United States Deputy Surveyor, do solemnly swear that I have received a grantee process from Edward H. Anderson, United States Surveyor General, for the state of Penns, bearing date of the 1<sup>st</sup> day of April, 1861, I have well, faithfully, and truly, in my own proper power, and to my satisfaction, with the instructions furnished by the United States Surveyor General for the state of Penns, the Manual of Surveying Instructions, and the laws of the United States, performed all the parts or portions west boundary of Section 15, and south boundary of Section 16.

I do further swear that I have surveyed and established the corners of the Section 15, in the state of Penns, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the state of Penns, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

S. J. Valentine  
United States Deputy Surveyor.

Subscribed by said S. J. Valentine, and sworn to before me  
this 1<sup>st</sup> day of February, 1866.

R. S. Valentine, Clerk District Court  
by Lorenzo Anderson, Deputy.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

S. J. Valentine, United States Deputy Surveyor,  
The foregoing field notes of the survey of The Ninth Recessionary Township,  
14th Range West of the First Meridian,  
Penns, were made by me, and are now presented to you for your approval, and to be recorded in the office of the Surveyor General, and to be used in the preparation of the map of the same.

I, S. J. Valentine, United States Deputy Surveyor,  
for his contract No. 145, dated April 1<sup>st</sup>, 1861, having been  
thoroughly examined, and the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.

J. G. Ward  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in  
the state of Penns, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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H  
BOOK A-332

# FIELD NOTES

OF THE SURVEY OF THE

Retracement of Subdivisions

in

Twp. 14 N., R. 16 W.

of the Salt Lake Base and Meridian,  
State of Utah,

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

under his Contract No. 245, dated April 12, 1901.

Survey commenced July 11, 1902.

Survey completed July 11, 1902.

Done in the year 1902  
Contract No. 245

NAMES AND DUTIES OF ASSISTANTS.

John L. Christensen,

Chairman

Eli Christensen,

Chairman

William W. Lee,

Moundman

Lewis O. Johnson,

Axman

John L. Bingham,

Flagman

Lafulerurray affidavit seal d. J. 14 M.R. 15 07

## BOOK A-332

## INDEX DIAGRAM.

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Meanders Page

# PRELIMINARY OATHS OF ASSISTANTS.

We, ..... and .....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman

, Chainman

Subscribed and sworn to before me this .....  
day of ....., 190 }  
{



We, ..... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman

, Moundman

Subscribed and sworn to before me this .....  
day of ....., 190 }  
{



We, ..... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman

, Axman

Subscribed and sworn to before me this .....  
day of ....., 190 }  
{



I, ..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman

Subscribed and sworn to before me this .....  
day of ....., 190 }  
{



Retracement of Subdivisions in Twp. 14 N., R. 16 W.

Claims	<p>Survey commenced July 11, 1902, and executed with a W. and L. E. Gurley engineers transit, described in notes of subdivision of Twp. 14 N., R. 15 W. Port C. I commence at the cor. of secs. 24, 25, 19 and 30, on the east boundary of the Twp., herein before described.</p>
	<p>At 6<sup>h</sup> 15<sup>m</sup> a.m., I observe Polaris at eastern elong. in accordance with instructions in the manual, and mark a point in the line thus determined, by a tack driven in a wooden peg, set in the ground, five chs. north of my station. Lat. 41° 55' 37" N.</p>
	<p>At 6<sup>h</sup> 50<sup>m</sup> a.m., I lay off the azimuth of Polaris 1° 38' to the west, and mark the true meridian thus determined by cutting a cross on a stone set in the ground, west of the point established last night.</p>
	<p>The magnetic bearing of said true meridian is N. 17° 52' W., which gives the magnetic declination 17° 52' E.</p>
	<p>Hence I run</p>
	<p>West, bet. secs. 24 and 25.</p>
	<p>Over mountainous land, through timber. I search diligently for the old 1/4 sec. cor. but find no traces of it.</p>
40.00	<p>Intersect the N. and S. line 46 lbs. S. of the cor. of secs. 23, 24, 25 and 26, which is a quartz stone, 5x14x3 ins. above ground, marked and witnessed as described by the surveyor general. <small>The true bearing of this line is therefore N. 89° 41' 04" W.</small></p>
81.76	<p>Land, mountainous.</p>
	<p>Soil, gravelly, 3rd rate.</p>
	<p>Timber, cedars.</p>
	<p>West, bet. secs. 23 and 26.</p>
	<p>Over rolling ground.</p>
40.00	<p>I search for the old 1/4 sec. cor. but fail to find it.</p>
82.22	<p>Intersect the N. and S. line 45 lbs. S. of the cor. of secs. 22, 23, 26 and 27, which is a quartz stone, 5x6x5 ins. above ground, marked and</p>

Retracement of Subdivisions in Twp. 14 N., R. 16 W.

	<p>Chains witnessed as described by the surveyor general. The bearing of this line is therefore N. 89° 41' W. Land rolling, Soil, coarse gravelly, 3rd rate. No timber</p>
40.08	<p>North, bet. secs. 22 and 23. Over ridgy ground. I find the old 1/4 sec. cor., which is a mica stone, <math>7 \times 14 \times 3</math> ins. above ground, marked and witnessed as described by the surveyor general.</p>
80.10	<p>Intersect the E. and W. line at the cor. of secs. 14, 15, 22 and 23, which is a quartz stone, <math>5 \times 10 \times 10</math> ins. above ground, marked and witnessed as described by the surveyor general. Land, rolling. Soil, gravelly and rocky, 3rd rate. No timber</p>
40.06	<p>North, bet. secs. 14 and 15. Over rolling ground. I find the old 1/4 sec. cor., which is a quartz stone, <math>7 \times 10 \times 5</math> ins. above ground, marked and witnessed as described by the surveyor general.</p>
80.10	<p>Intersect the E. and W. line at the cor. of secs. 10, 11, 14 and 15, which is quartz stone, <math>5 \times 12 \times 8</math> ins. above ground, marked and witnessed as described by the surveyor general. Land, rolling. Soil, gravelly, 2nd rate. No timber</p>
	<p>I flag west to the cor. of secs. 8, 9, 16 and 17, which is a mica stone in place, <math>36 \times 18</math> ins. above ground, marked and witnessed as described by the surveyor general. Thence I run South, bet. secs. 16 and 17. Over rolling ground, through cedars.</p>

Replacements of Subdivisions in Twp. 14 N., R. 16 W.

Brains  
40.11

I fall 1/2 ltrs. west of the old 1/4 sec. cor., which is a mica stone, 5x4x4 ins. above ground, marked and witnessed as described by the surveyor general.

80.18

Intersect the east and west line 17 ltrs. N. of the cor. of secs. 16, 17, 20 and 21, which is a quartz stone, 7x6x6 ins. above ground, marked and witnessed as described by the surveyor general.

The bearing of this line is therefore S. 0° 7' E.

40.05

I continue this course and run S. 0° 7' E., bet. secs. 20 and 21.  
<sup>over ridge, through cedar.</sup>

I find the old 1/4 sec. cor., which is a quartz stone, 5x10x7 ins. above ground, marked and witnessed as described by the surveyor general.

80.03

Intersect line E. and N. line at the cor. of secs. 20, 21, 28 and 29, which is a quartz stone 6x10x5 ins. above ground, marked and witnessed as described by the surveyor general.

Land, ridgy.

Soil, gravelly and rocky, 3rd rate.

Timber, cedars.

S. 0° 7' E., bet. secs. 28 and 29.

Over rolling ground, through timber.

40.00

I search diligently for the old 1/4 sec. cor. but find no traces of it.

81.48

Intersect the E. and N. line at the cor. of secs. 28, 29, 32 and 33, which is a quartz stone, 7x9x7 ins. above ground, marked and witnessed as described by the surveyor general.

Land, rolling.

Soil, rocky, 3rd rate.

Timber, cedars.

S. 0° 7' E., bet. secs. 32 and 33.

Over rolling benches.

40.00

I search diligently for the old 1/4 sec. cor. but find no traces of it.

Retracement of Subdivisions in Twp. 14 N., R. 16 W.

Chains

81.45

Intersect the cor. of secs. 32 and 33, on S.  
bdy. of the Twp., herein before described.  
Land, rolling benches.  
Soil, gravelly and rocky, 3rd rate.  
No timber.

July 11, 1902.

For general description see notes  
of the subdivisions of Twp. 14 N., R. 16 W.

Nephi P. Anderson,  
U.S. Deputy Surveyor.

# FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by .....  
....., United States Deputy Surveyor, to assist in running, measuring, and  
working the lines and corners described in the foregoing field notes of the survey of .....  
wing the respective capacities in which they acted:

....., Chainman.

....., Chainman.

....., Moundman.

*Ha final affidavito se l'or. J. W. Riggs*, Moundman.

....., Axman.

....., Axman.

....., Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....  
....., United States Deputy Surveyor, in surveying all  
se parts or portions of the .....  
....., of the .....  
meridian, ..... of ....., which are represented  
he foregoing field notes as having been surveyed by him and under his direction; and that said survey  
been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
er monuments established, according to the instructions furnished by the United States Surveyor  
eneral for .....

....., Chainman.

....., Chainman.

....., Moundman.

*Ha final affidavito se l'or. J. W. Riggs*, Moundman.

....., Axman.

....., Axman.

....., Flagman.

scribed and sworn to before me this .....  
day of ..... , 190 }

SEAL

*I do my duty, as you may command me.*

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

*As final affidavits see back of J.P. 11 M P 9 Qr*

meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Yankton Lake City, S.Dak., April 3, 1901, 1901*  
*Retracount of the subdivisional lines of*  
*Township 14 North Range 16 West of the Dark Lake Base*  
*& Meridian, Dakota.*

executed by \_\_\_\_\_, *Nephi D. Anderson*  
under his contract No. *245*, dated *April 12, 1901*, 1901, having been  
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Thomas H. G.*  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

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I.  
BOOK A-332

## FIELD NOTES

OF THE SURVEY OF THE

*Subdivisions*

of

*April 14 N., R. 16 W.*

of the Salt Lake Base and Meridian,  
 State of Utah.

AS SURVEYED BY

*Nephi P. Anderson*, United States Deputy Surveyor,

under his Contract No. 245, dated April 12, 1901.

Survey commenced July 12, 1902.

Survey completed July 14, 1902.

6-161

Brash	14.10.50
total	1.00.66
Cash	12.57

Done this day of June, 1902, year of our Lord One thousand nine hundred and two.

NAMES AND DUTIES OF ASSISTANTS.

John J. Christensen,

Chairman

Eli Christensen,

Chairman

William N. Lee,

Mountman

Lewis O. Johnson,

Exman

John J. Birmingham,

Flagman

To preliminary affidavits submitted C. J. 14 MR 15 M

INDEX DIAGRAM.

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*Meanders Page* \_\_\_\_\_

**PRELIMINARY OATHS OF ASSISTANTS.**

WE, ..... and .....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of .....

, Chainman.

, Chainman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of .....

, Moundman.

, Moundman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of .....

, Axman.

, Axman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



I, ..... , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

, Flagman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190 }



# Subdivisions of Twp. 14 N., R. 16 W.

Claims	<p>Survey commenced July 12, 1902, and executed with a W. &amp; L. E. Gurley engineers transit, described in notes of subdivisions of Twp. 14 N., R. 15 W. Brook C.</p> <p>The elevations are taken from an aneroid barometer, made by Asprey, London.</p> <p>At the cor. of secs. 35 and 36, on south bdy. of the Twp., herein before described,</p> <p>At 6<sup>h</sup> 11<sup>m</sup>. 2<sup>s</sup> a.m., l.m.t., I observe Polaris at eastern elong. in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. north of my station. Lat. 41° 53' 53" N.</p> <p>At 6<sup>h</sup> 50<sup>m</sup> a.m., I lay off the azimuth of Polaris 1° 38' to the west, and mark the meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.</p> <p>The magnetic bearing of the true meridian is N. 17° 56' W., which gives the magnetic declination 17° 56' E.</p> <p>Thence I run</p> <p>N. 0° 1' W., bet. secs. 35 and 36.</p> <p>Over mountainous land, through aspen brush.</p>
8.00	Leave aspen brush.
15.50	Enter aspen brush.
18.50	Leave aspen brush.
38.50	Hollow, drains N.E., elevation 6200 ft.
	Ascend.
40.00	Set a quartz stone, 19×9×5 ins., 14 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, 2 1/2 of cor., pits impracticable.
50.00	Ridge, bears N.E. and S.W.
54.00	Descend.
80.00	Set a sand stone, 25×9×5 ins., 19 ins. in the ground, for cor. of secs. 35 and 36, marked with 1 notch on E. and 5 notches on W. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, 3 of cor., pits impracticable.

Subdivision of Twp. 14 N., R. 16 W.

Chains	Elevation 6150 ft. Land, mountainous. Soil, gravelly and rocky, 3rd rate. No timber. Mountainous land 80.00 acrs.
40.00	East on random line bet. secs. 25 and 36. Set temp. 1/4 sec. cor.
79.60	Intersect the E. bdy. of the Twp. 23 ths. S. of the cor. of secs. 25, 30, 31 and 36, herein before described. Thence I run $89^{\circ}50'N$ , on true line, bet. secs. 25 and 36. Over mountainous land.
5.50	Hollow, drains S.
39.80	Set a slate rock, 19x9x4 ins., 14 ins. in the ground, for 1/4 sec. cor., marked 1/400W.N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
45.50	Road, bears N. W. and S. E.
71.30	Hollow, drains N. W.
79.60	The cor. of secs. 35 and 36. Land, mountainous. Soil, gravelly and rocky, 3rd rate. No timber. Mountainous land 79.60 acrs.
From the cor. of secs. 34 and 35, on E. bdy. of the Twp., herein before described	
	I run $N.0^{\circ}2'W$ , bet. secs. 34 and 35, Over mountainous land.
	Ascend.
3.00	Ridge, bears N. E. and S. W.
40.00	Set a quartz stone, 18x7x5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/400W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
80.00	Set a sand stone, 14x10x5 ins., 9 ins. in the ground, for cor. of secs. 34 and 35, marked with 4 notches on N. and 2 notches on E. edge,

Subdivision of Twp. 14 N., R. 16 W.

Chains	and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor., pits impracticable. Elevation 6330 ft.
Land, mountainous.	Soil, gravelly, 2nd rate. Timber, aspens, in patches. Mountainous land 80.00 chs.
40.00	East, on random line, bet. secs. 26 and 35. Set temp. 14 sec. cor.
80.06	Falls 18 lbs. N. of the cor. of secs. 35 and 36. Hence I run
0.70	N. 89° 52' W., on true line, bet. secs. 26 and 35. Over mountainous land. Small hollow, drains N. E.
4003	Ascend. Set a sand stone, 13 x 7 x 6 ins., 9 ins. in the ground, for 14 sec. cor., marked 14 on N. face, dig pits, 18 x 18 x 12 ins., E. and W. of stone 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
52.00	Ridge, bears bears N. E. and S. W.
60.00	Hollow, drains N. E.
80.06	The cor. of secs. 34 and 35. Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, cedars, scattered. Mountainous land 80.06 chs.
13.50	From the cor. of secs. 33 and 34, on S. bdy. of the Twp., herein before described, I run
36.00	N. 0° 2' W., bet. secs. 33 and 34. Over mountainous land, descending. Hollow, drains S. W.
40.00	Ridge, bears S. W. and N. E., elevation 7320 ft. Descend. Set a sand stone, 18 x 8 x 5 ins., 12 ins. in the ground, for 14 sec. cor., marked 14 on W. face, and raise a mound of stone, 2 ft. base,

Subdivision of Twp. 14 N., R. 16 W.

Chains	1½ ft. high, W. of cor., pits impracticable.
75.00	Enter aspen brush.
79.00	Leave aspen brush.
80.00	Set a sand stone, $20 \times 9 \times 3$ ins.; 15 ins. in the ground, for cor. of secs. 33 and 34, marked with 3 notches on E. and W. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor., pits impracticable. Elevation 6750 ft. Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, small aspens, in patches.
	Mountainous land 80.00 chs.

July 12, 1902

July 13, 1902.

At this cor. at  $0^{\text{h}} 7^{\text{m}} 3^{\text{s}}$  a.m., b.m.t., I observe Polaris at eastern elong. and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground, 5 chs. north of my station. Lat.  $41^{\circ} 54' 45''$  N.  
At  $7^{\text{h}} 30^{\text{m}}$  a.m., I lay off the azimuth of Polaris  $1^{\circ} 38'$  to the west and mark the true meridian thus determined by a cross over a stone firmly set in the ground, west of the point established last night.

The magnetic bearing of the true meridian is  $N. 17^{\circ} 38' W.$ , which gives the magnetic declination  $17^{\circ} 58' E.$

Thence I run

East, on random line, bet. secs. 27 and 34.

40.00 Set temp. 14 sec. cor.

80.00 Falls 12 lks. S. of the cor. of secs. 34 and 35.

Thence I run

S.  $89^{\circ} 55' W.$ , on true line, bet. secs. 27 and 34.

Over mountainous land, ascending.

28.00 Rocky ridge, bears N. E. and S. W., elevation 6970 ft. Descend.

32.00 Hollow, drains N. E., enter aspen brush. Ascend.

40.00 Set a quartz stone,  $14 \times 10 \times 6$  ins., 9 ins. in the ground, for 14 sec. cor., marked 1400 W. face, and raise a mound of stone, 2 ft.

Subdivision of Twp. 14 N., R. 16 W.

Bearna.	base, $1\frac{1}{2}$ ft. high, N. of cor. pits impracticable.
47.00	Leave aspen brush.
58.00	Ridge, bears N.E. and S.W. Descend.
80.00	The cor. of secs. 33 and 34. Land, mountainous. Soil, gravelly and rocky, 3rd rate. No timber, aspen brush. Mountainous land 80.00 chs.
	West, on random line, bet. secs. 28 and 33.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
84.52	Falls $1\frac{1}{2}$ chs. S. $0^{\circ}7'6$ . of the cor. of secs. 28, 29, 32 and 33, which is a quartz stone, $7 \times 9 \times 7$ ins. above ground, marked and witness- ed as described by the surveyor general. I destroy all marks thereon pertaining to secs. 28 and 33. Set a quartz stone, $18 \times 10 \times 3$ ins., 12 ins. in the ground, for closing cor. of secs. 28 and 33. marked c.s. cor. E., with 1 groove on S. and 5 grooves on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor., pits impracticable.
	Front Range
	East, on true line, bet. secs. 28 and 33.
	Ascend on western slopes of mountain.
44.52	Set a sand stone, $14 \times 12 \times 6$ ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, dig pits, $18 \times 18 \times 12$ ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
50.00	Rounded ridge, slopes N. W.
78.80	Enter aspens.
83.00	Leave aspens.
84.52	The cor. of secs. 33 and 34. Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, aspens, in patches. Mountainous land 84.52 chs.

Subdivision of Twp. 14 N., R. 16 W.

	From the cor. of secs. 23, 24, 25 and 26, herein before described.
	I run
	South, on true line, bet. secs. 25 and 26.
	Over rolling ground.
40.30	I find the old 1/4 sec. cor., which is a mica stone, $5 \times 10 \times 7$ ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Thence over mountainous land, through cedars.
	Ascend.
82.13	Intersect the east and west line 2.63 chs. S. 89° 52' W. of the cor. of secs. 35 and 36.  Set a sand stone, $18 \times 12 \times 3$ ins., 12 ins. in the ground, for closing cor. of secs. 25 and 26, marked C. C. on N., with 5 grooves on W. and 1 groove on E. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, cedars.
	Mountainous land 41.83 chs.
	From the cor. of secs. 22, 23, 26 and 27, herein before described,
	I run
	South, on true line, bet. secs. 26 and 27.
40.36	I find the old 1/4 sec. cor., which is a quartz stone, $6 \times 10 \times 5$ ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Thence over mountainous land.
79.40	Spring, 4.50 chs. E.
82.40	Intersect the E. and W. line 4.36 chs. S. 89° 55' W. of the cor. of secs. 34 and 35.  Set a sand stone, $14 \times 8 \times 5$ ins., 9 ins. in the ground, for closing cor. of secs. 26 and 27, marked S. S. on N., with 2 grooves on E. and 4 grooves on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.

Subdivision of Twp. 14 N., R. 16 W.

Chains	of cor., pits impracticable. Land, mountainous. Soil, rocky and gravelly, 3rd rate. No timber. Mountainous land 42.04 chs.
	From the cor. of secs. 22, 23, 26 and 27, herein before described, From West, on random line, bet. secs. 22, and 27 (and 21 and 28), setting temp. 14 sec. and sec. cor. at 40 chs., and at 79.69 chs. intersect the N. and S. line 23 lbs. S. of the cor. of secs. 20, 21, 28 and 29, herein before described. Hence From
5.8955° E.	on true line, bet. secs. 21 and 28. Over mountainous land, ascending Set a shale rock, 17x6x6 ins., 12 ins. in the ground for 14 sec. cor., marked 14 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
39.69	Set a sand stone, 20x8x6 ins., 15 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
79.69	Set a sand stone, 20x8x6 ins., 15 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable. Land, mountainous. Soil, gravelly and rocky, 3rd rate. No timber. Mountainous land 79.69 chs.
21.50 40.00	S. 89°55' E., on true line, bet. secs. 22 and 27. Over mountainous land, ascending, through brush. Ridge, sloping N.E., descend. In hollow, drains N.E. Set a sand stone, 18x10x4 ins., 12 ins. in the ground, for 14 sec. cor., marked 14 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable. Leave aspen brush and ascend. The cor. of secs. 22, 23, 26 and 27. Land, mountainous.
80.00	

Subdivision of Twp. 14 N., R. 16 W.

Chains.	<p>Soil, gravelly, partly rocky, 3rd rate. Timber, cedars and small aspens. Mountainous land 80.00 chs.</p>
	July 13, 1902.
	<p>At the cor. of secs. 21, 22, 27 and 28, at a h. 3<sup>m</sup>. 5 a. m., l. m.t., I observe Polaris at eastern elong. in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. north of station. Lat. 41° 55' 37" N.</p>
	<p>July 14: At 7<sup>h</sup> 50<sup>m</sup> a. m., I lay off the azimuth of Polaris 1° 38' to the west, and mark the me- ridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night. The magnetic bearing of the true meridian is N. 17° 56' W., which gives the magnetic declination 17° 56' E. Thence I run South, on true line, bet. secs. 27 and 28. Over mountainous land, through small aspens. Ascend.</p>
40.00	<p>Set a quartz stone, 20x7x4 ins., 15 ins. in the ground, for cor. cor., marked 44 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.</p>
52.00	<p>Ridge, sloping N. W. Descend.</p>
69.00	<p>Hollow, drains N. W., spring 9 chs. west. Ascend.</p>
82.63	<p>Intersect the E. and W. line 4.36 chs. west of the cor. of secs. 33 and 34. Elevation 5830 ft. Set a sand stone, 15x7x7 ins., 10 ins. in the ground, for cor. of secs. 27 and 28 marked w.c. on N., with 3 grooves on E. and W. faces, and raise a mound of stone, 2 ft base, 1 1/2 ft. high, N. of cor., pits impracticable. Land, mountainous</p>

Subdivision of Twp. 14 N., R. 16 W.

Shains	Soil, gravelly and rocky, 3rd rate. Timber, small aspen in patches. Mountainous land 82.63 acs.
	N. 0° 2' W., bet. secs. 21 and 22. Over mountainous land, descending. Hollow, drains N.E. Ascend.
39.00	Set a sand stone, 16x8x4 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 N. on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
40.00	Ridge, bears E. and W.
77.00	Hollow, drains E., ascend.
80.00	Set a sand stone, 19x12x6 ins., 14 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked with 3 notches on S. and E. edges, 14 N. on N.E. and 16 W. on S.E. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable. Land; mountainous. Soil, gravelly and rocky, 3rd rate. No timber. Mountainous land 80.00 acs.
39.95	S. 89° 55' E., on random line, bet. secs. 15 and 22. Intersect the N. and S. line 16 lbs. S. of the 1/4 sec. cor. of secs. 15 and 22, which is a quartz stone, 12x8x5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. Thence I run S. 89° 51' W., on true line, bet. secs. 15 and 22. Ascend on mountainous slope, through dense cedars.
10.00	Ridge, bears N.W. and S.E. Descend.
39.95	The cor. of secs. 15, 16, 21 and 22. Land, mountainous. Soil, gravelly and rocky, 3rd rate.

Subdivision of Tp. 14 N., R. 16 W.

	Chains	Timber, cedars.
		Mountainous land 39.95 chs.
39.82		N. 89° 55' W., on random line, bet. secs. 16 and 21. Intersect the N. and S. line 13 lks. S. of the old $\frac{1}{4}$ sec. cor., which is a stone in place, projecting 6 x 2 ft. above ground, marked and witnessed as described by the surveyor general.
		Hence I run
		S. 89° 44' E., on true line bet. secs. 16 and 21. Ascend on southern slope of mountain
5.00		Rocky spur, bears N. and S. Descend.
22.00		Enter cedars.
39.82		The cor. of secs. 15, 16, 21 and 22. Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, cedars.
		Mountainous land 39.82 chs.
80.36		N. 0° 2' W., on random line, bet. secs. 15 and 16. Intersect the E. and W. line 40 lks. east of the cor. of secs. 9, 10, 15 and 16, herein before described.
		Hence I run
		S. 0° 19' E., on true line, bet. secs. 15 and 16. Over mountainous land, through dense cedars and piñon pines.
40.36		Set a quartz stone, 16 x 16 x 3 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
42.50		Open hollow, drains N.E. Ascend.
54.50		Enter upon ridge, sloping N.E.
59.50		Ridge, bears N.E. and S.W. Leave cedars and pines. Descend.
80.36		The cor. of secs. 15, 16, 21 and 22. Land, mountainous.

Subdivision of Twp. 14 N., R. 16 W.

Soil, gravelly, partly rocky, 3rd rate.  
Timbers, cedars, pinyon pines and aspens.  
Mountainous land 80.36 chs.

July 14, 1902.

Boundaries of Survey of Fractional  
Twp. 14 N., R. 16 W., showing  
Latitudes, departures and closing errors.

Line designated	True bear.	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
South bdy.	West	324.50	... 323.14	... 323.14	... 160.00	324.50 0.66
West bdy.	N. 0° 7' W.	323.14	323.14	... 160.20	160.00 160.20	... ... ... 163.98
North bdy.	East	160.00	... 160.20	... 160.20	160.00 160.20	...
	South	160.20	... 163.98	0.91	163.98	...
	S. 89° 41' E.	163.98	... 40.62	40.62	... ...	...
East bdy.	South	40.62	... 120.90	120.90	0.60	...
	S. 0° 17' E.	120.90	120.90	0.60	...	...
Convergency			... 323.14	0.38 322.63	325.16 324.96	...
Errors in		lat. 051	departure	0.20		

### General Description.

This part of the township is all mountainous, and constitute part of the divide between Junction Valley on the west and Raft River Valley on the east side. The soil is gravelly, ordinary grazing land, with but few watering places for stock.

There are no settlers within the survey. The timber consists of cedars and some pinyon pines.

No mineral appears within the survey.

Nephi P. Anderson,  
U. S. Deputy Surveyor.

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# FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by ..... United States Deputy Surveyor, to assist in running, measuring, and checking the lines and corners described in the foregoing field notes of the survey of ..... wing the respective capacities in which they acted:

..... Chairman.  
..... Chairman.  
..... Moundman.  
*Fa ferial affidavits salvo st. C. J. B. M. R. G. T.* ..... Moundman.  
..... Axman.  
..... Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted ..... United States Deputy Surveyor, in surveying all those parts or portions of the ..... of the ..... meridian, ..... of ..... which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for ..... of the ..... meridian,

..... Chairman.  
..... Chairman.  
..... Moundman.  
*Fa ferial affidavits salvo st. C. J. B. M. R. G. T.* ..... Moundman.  
..... Axman.  
..... Flagman.

Subscribed and sworn to before me this ..... day of ..... 190



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for ..... bearing date of the day of ..... 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

*For fiscal affidavit see book R.R. p. 1301 P. 9 W.*

of the

meridian, in the ..... of ..... which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 . }

○○○○○  
○ NEAL ○  
○○○○○

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*March 1st 1906* April 3 1906 No  
The foregoing field notes of the survey of ~~the geographical corner of~~  
~~Merriam Mts. and Range 16 West of the Salt Lake Base~~  
~~and Meridian Octad.~~

executed by *Rufus D. Neal* under his contract No. 245 dated April 12, 1901, 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Thomas Bell*  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-332

341

## FIELD NOTES

R.3.B.  
Re  
OF THE SURVEY OF THEUtah-Nevada Boundary Line  
in

Twp. 11, 12 and 13 N., R. 19 W.

of the Salt Lake Base and Meridian,  
State of Utah.

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

Under his Contract No. 245, dated April 12, 1901.

Survey commenced July 15, 1902.

Survey completed July 17, 1902.

6-161

High	13 00 34 ✓
Low	2 00 44 ✓

NAMES AND DUTIES OF ASSISTANTS.

John S. Christensen,

Chairman

Eli Christensen,

Chairman

William N. Lee,

Manager

Lewis O. Johnson,

Arman

John S. Bingham,

Flagman

BOOK A-332

INDEX DIAGRAM.

*Township*....., *Range*.....

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

*Meanders Page*.....

**PRELIMINARY OATHS OF ASSISTANTS.**

We, John S. Christensen and Eli Christensen  
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the  
 chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that  
 we will report the true distances to all notable objects, and the true lengths of all lines that we assist in  
 measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Utah-Nevada Bdy. line in Tps. 11, 12 and 13 N., R. 19 W., Salt Lake  
 Base and Meridian, Utah. John S. Christensen, Chainman.

Eli Christensen, Chainman.

Subscribed and sworn to before me this 19  
 day of June, 1902. }



J D Call

Notary Public

My commission expires,

Nov. 16th 1905

We, William W. Lee and \_\_\_\_\_  
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment  
 of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Utah-Nevada Bdy. line in Tps. 11, 12 and 13 N., R. 19 W., Salt Lake  
 Base and Meridian, Utah. William W. Lee, Moundman.

Moundman.

Subscribed and sworn to before me this 19  
 day of June, 1902. }



J D Call

Notary Public

My commission expires,

Nov. 16th 1905

We, Lewis O. Johnson and \_\_\_\_\_  
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners  
 and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Utah-Nevada Bdy. line in Tps. 11, 12 and 13 N., R. 19 W., Salt Lake  
 Base and Meridian, Utah. Lewis O. Johnson, Axman.

Axman.

Subscribed and sworn to before me this 19  
 day of June, 1902. }



J D. Call

Notary Public

My commission expires,

Nov. 16th 1905

I, John S. Bingham, do solemnly swear that I will well and truly  
 perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the  
 survey of Utah-Nevada Bdy. line in Tps. 11, 12 and 13 N., R. 19 W., Salt Lake  
 Base and Meridian, Utah. John S. Bingham, Flagman.

Subscribed and sworn to before me this 19  
 day of June, 1902. }



J D Call

Notary Public

My commission expires,

Nov. 16th 1905

# Resurvey of the Utah-Nevada Body Line.

**Chains** Survey commenced July 15, 1902, and executed with a W. & L. E. Guly engineer's transit, described in subdivisional notes of Twp. 14 N., R. 15 W. Book C.  
 At boundary post no. 23, which is a cedar post, firmly set, marked, and witnessed as described by the surveyor general, at  $11^{\text{h}} 55^{\text{m}} 7^{\text{s}}$  p.m. l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line, thus determined, on a peg driven in the ground, 5 chs. N. of my station.

July 15, 1902.

July 16: At  $7^{\text{h}} 30^{\text{m}}$  a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ} 37' 6''$ , to the west, and mark the meridian thus determined, by a cross on a stone, firmly set, west of the point established last night. The magnetic bearing of the true meridian is N.  $17^{\circ} 57' W.$ , which gives the magnetic declination  $17^{\circ} 57' E.$

Thence I run

North on the 24th mile

Ascend on mountainous slope.

32.00 Hig. v peak. in line

I find a cedar post, 4 ins. diam., 4 ft. above ground, marked and witnessed as described by the surveyor general.

Descend.

80.00 I search diligently for post no. 24, but find no traces of it.

Set a sand stone,  $18 \times 12 \times 9$  ins., on bed rock in mound of stone, for boundary post no. 24, marked  $N$  on W. and U on east face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, E. of cor.; pits impracticable.

Land, mountainous.

Soil, rocky, 4th rate.

Survey of Utah-Nevada Boundary Line.

Chains	Timber, scattered cedars. Mountainous land 80.00 chs.
	North on the 25th mile. Descend over mountainous land. 31.40 Contracted hollow, draining N.E.; spring 50 ft. E. 66.40 Brook, 1 lk. wide, 2 ins. deep, flows N.E. in hollow. 73.50 Brook, 2 lks. wide, 2 ins. deep, flows N.E. in hollow 80.00 I find post no. 25, loose on the ground, reset it in the old mound, and raise a mound of stone around it. Elevation 5900 ft. Note. Although the post is considerably decayed the following inscriptions can plainly be read: 25 on S., Nevada on W., S. W. 37 on N. and Utah on E. face. Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, cedars. Mountainous land 80.00 chs.
	North on the 26th mile. Over mountainous land and dense undergrowth 25.35 Brook, 1 lk. wide, 1 in. deep, flows E. N. E. 80.00 I find post no. 26, which is a cedar, 5 ft. long, <sup>post</sup> 5 ins. diam., marked 26 on S., Nevada on W., S. W. 37 on N. and Utah on E. face, loose on the ground. The old mound is 23 lks. E. of the line, in which I reset the post and raise a mound of stone around it. <del>The course of this mile is therefore N. 0° 10' E.</del> Land, mountainous. Soil, gravelly, 3rd rate. Timber, scattered cedars. Mountainous land and dense undergrowth 80.00 chs.
	North on the 27th mile. Over mountainous land through dense undergrowth. 2.00 Brook, 1 lk. wide, 1 in. deep, flows S. E.; ascend. 29.00 Ridge, bears S. E. and N. W., descend. 33.00 Dry channel, drains S. E. Ascend 57.00 Spring, 7 chs. E. 70.00 Ridge, sloping N. E.

# Resurvey of Utah-Nevada Bdy. line.

Chains

72.00

Ravine, drains N.E.

80.50

Falls 7 lbs. E. of post no. 27,  
which is a cedar post, 5 ft. long, 4 ins. diam.,  
marked 27 on S., Nevada on W., S.W. 27 on N.,  
and Utah on E. face, loose on the ground. I  
reset post in the old mound and raise a  
mound of stone around it. The course of this is therefore  
 $N. 0^{\circ} 3' W.$   
Land mountainous.

Soil, gravelly, 3rd rate.

Timber, scattered cedars.

Mountainous land and dense undergrowth 80.50 chs.

North on the 28th mile.

Over mountainous land and dense undergrowth  
Hollow, drains S.E.; spring 12 chs. down hollow.

Hollow, drains E.

Hollow, drains S.E.

Granite spur, bears S.E.

Small, rocky hollow, drains S.E.

Main ridge, bears S.E., elevation 6060 ft.

Descend.

79.84

Falls 8 lbs. E. of post no. 28,  
which is a cedar post, 5 ft. long, 4 ins. diam.,  
marked 28 on S., Nevada on W., S.W. 37 on N.,  
and Utah on E. face, loose on the ground.  
I reset post in the old mound, renew  
trenches and raise a mound of earth around it.  
The course of this mile is therefore  $N. 0^{\circ} 3' W.$   
The post stands in a hollow, draining S.E.,  
with two springs, 5 and 7 chs. down hollow.  
Land, mountainous.

Soil, gravelly and rocky, 3rd rate.

Timber, cedars, in patches.

Mountainous land 79.84 chs.

North on the 29th mile.

Descend over mountainous land.

3.00 Hollow, drains E.

20.00 Spur, projects E.

29.50 Dry channel, drains S.E.

Resurvey of Utah-Nevada Body Line.

Chain 39.00	Spur, projects S.E., descend.
54.90	Dry channel, drains S.S.E.
57.00	Cliffs, 40 ft. high, trends S.E.
70.00	Cliffs, 30 ft. high, trends N.W., descend.
77.00	Hollow, drains S.S.W., ascend.
80.00	Falls, 9 lbs. W. of post no. 29, which is a cedar post, 5 1/2 ft. long, 5 ins. diam., marked 29 on S., Nevada on W., S. W. 37 on N., and Utah on E. face, loose on the ground. Reset post in the old mound and raise a mound of stone, 2 ft. high, around it. The course of this mile is therefore N. 0° 4' E. Land, mountainous. Soil, rocky, 4 th rate. No timber. Mountainous land 80.00 chs.

	North, on the 30th mile. Ascend over mountainous land.
20.00	Spur, projects S.E.; descend.
29.00	Ravine, drains S.E.
45.10	Road, bears S.W. and N.N.E.
46.00	Ascend.
47.50	Rocky spur, sloping S.E.
80.00	Falls 10 lbs. W. of post no. 30, which is a mahogany post, 5 ft. long, 4 ins. diam., marked 30 on S., Nevada on W., S. W. 37 on N., and Utah on E. face, loose on the ground. I reset post in the old mound, and raise a mound of stone around it. The course of this mile is therefore N. 0° 4' E. Land, mountainous. Soil, gravelly, 2nd rate. No timber. Mountainous land 80.00 chs.

July 16, 1902.

At this post, at 11 h 51 m p.m., l.m.t., I ob-  
serve Polaris at eastern elongation, in ac-  
cordance with instructions in the Manual,  
and mark the line thus determined, by a  
tack driven in a wooden peg firmly in the  
ground 5 chs. N. of my station. July 16, 1902.

# Resurvey of Utah-Nevada Bdy. Line.

Chains

July 17. At 7<sup>h</sup> 20<sup>m</sup> a.m. I lay off the azimuth of Polaris,  $1^{\circ} 37' 7''$  to the west, and mark the Meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night. The magnetic bearing of the true meridian is  $N. 17^{\circ} 58' W.$ , which gives the magnetic declination  $17^{\circ} 58' E.$

From post no. 30 I run

North, on the 31st mile.

Ascend in narrow valley through dense undergrowth.

80.00

Falls 9.6 lbs. W. of post no. 31, which is a mahogany post, 5 ft. long 4 in. diam., marked 31 on S., Nevada on W., S. W. 37 on N., and Utah on E. face. I reset post in the old mound, and raise a mound of stone,  $1\frac{1}{2}$  ft. high, around it. This post stand on a rocky spur, bearing S.E. and N.W. The course of this mile is therefore  $N. 0^{\circ} 41' E.$   
Land, mountainous.  
Soil, gravelly, 2nd rate.  
Timber, cedars and mahogany, scattered.  
Dense undergrowth 80.00 chs.

North, on 32nd mile.

Ascend over mountainous land.

10.00

Dividing ridge, bears W. and E.; descend.

36.00

Hollow, drains E.

43.00

Spur, sloping E. & S.E.

52.50

Hollow, draining E. N. E.

57.00

Spur, projects N. E.

80.00

Falls  $1\frac{1}{2}$  lbs. W. of post no. 32, marked 32 on S., Nevada on W., S. W. 37 on N., and Utah on E. face, loose on the ground. Reset post in the old mound and raise a mound of stone,  $1\frac{1}{2}$  ft. high, around it. The course of this mile is therefore  $N. 0^{\circ} 41' E.$   
Land, mountainous.

Soil, gravelly, 2nd rate.

Timber, cedars and mahogany, scattered.

Mountainous land 80.00 chs.

# Resurvey of Utah-Nevada Bdy. Line.

Chains	North, on the 33rd mile. Over mountainous land through timber.
2.00	Hollow, drains E., ascend. Spur, bears S.E.
25.00	Head of hollow, drains N.E.
31.00	Spur, bears E.; elevation 6820 ft., descend.
55.00	Head of hollow, drains N.E.; ascend.
66.00	On rocky spur, bears E. and W.
80.00	Falls 66 lbs. E. of post no. 33, which is a cedar post, loose and largely consumed by fire. Most of the marks are still legible. I reset stump in the old mound, and raise a mound of stone, 1½ ft. high, around it. The course of this mile is therefore $N. 10^{\circ} 28' W.$ Land, mountainous.
	Soil, gravelly and rocky, 3rd rate. Timber, cedars, and some pines. Mountainous land 80.00 chs.
	North, on the 34th mile.
54.50	Over mountainous land, descending. Canyon, drains N.W.
	Ascend abruptly.
66.00	Conglomerate cliffs, 15 ft. high, trends S.W. and N.E. Enter dense cedars.
75.00	Leave cedars and descend.
80.00	Falls 65 lbs. E. of post no. 34, which is a cedar post, 3½ ft. above ground, 5 ins. diam., firmly set, marked 34 on S., Nevada on W., L. W. 34 on N., and Utah on E. face. I raise a mound of stone, 1½ ft. high, around it. The course of this mile is therefore $N. 10^{\circ} 28' W.$ Land, mountainous.
	Soil, rocky and broken, 4th rate. Timber, cedars, in patches. Mountainous land 80.00 chs.
	North, on the 35th mile.
22.00	Over mountainous land.
32.50	Spur, bears N.W.
50.00	Hollow, drains N.W.
	Spur, bears N.W. and S.E., descend.

Resurvey of Utah-Nevada Bdy. line.

Chambers 56.00	Hollow, drains N.W., ascend.
62.80	Small spur, bears N., descend
70.00	Hollow, drains N.W., ascend.
80.00	Fallies 65 lbs. E. of post no 35 which is a cedar post, 5 1/2 ft. long, 5 ins. diam., marked 35 on S., Nevada on W., S.W. 37 on N., and Utah on E. face, loose on the ground; redt. post in the old mound, and raises a mound of stone, 1 1/2 ft. high, around it. The course of the mth is therefore 1.0° 28' N. Land, mountainous.
	Soil, gravelly, 2nd rate.
	Timber, cedars, in patches.
	Mountainous land 80.00 chas.

	North, on the 36th mile.
	Over mountainous land.
9.00	Spur, bears N.W. and S.E.
14.00	Mashy, drains N.W.
24.00	East denser cedars.
	Precip.
76.00	Leave cedars.
80.00	Fallies 72 lbs. W. of post no 36 which is a cedar post, 4 ft. long, 4 ins. diam., marked 36 on S., Nevada on W., S.W. 37 on N., and Utah on E. face, loose on the ground. Redt. post in the old mound, and raises a mound of stone, 1 1/2 ft. high, around it. Elevation 6,300 ft. The course of the mth is therefore 1.0° 51' E. Land, mountainous.
	Soil, gravelly, 2nd rate.
	Timber, cedars.
	Mountainous land 80.00 chas.

	North, on the 37th mile.
	Over rolling ground, through dense undergrowth
11.00	Hollow, drains N.W.
8.00	Ascend on foot of ridge
40.00	Hollow, drains N.W.
43.00	Ascend over foot hill.
80.00	In hollow, drains N.E.

Resurvey of Utah-Nevada Bdy Line.

Chains

Falls 72 lbs. W. of post no. 37,  
which is a cedar post, 4 ins. diam.,  
3 ft. above ground, firmly set, marked  
38 on S., NEVADA on W., L.V. 37 on N., and  
UTAH on E. face. The course of this mile is therefore  
<sup>N. 0° 31' E.</sup>  
Land, rolling.  
Soil, sandy and gravelly, 2nd rate.  
Timber, cedar, in patches.

	Thence flag ahead to post no. 38, and run N. 1° 12' E., on the 38th mile.
9.67	Road, bears N. W. and S. E.
17.50	Muddy Creek, 3 lcs. wide, 2 ins. deep, flows N. W.
41.00	Small cedar ridge, bears E. and W.
47.32	Dry water course, drains W. N. W.
80.44	Intersect post no. 38, which is a cedar post, 2 ft. above ground, 4 ins. diam., firmly set, marked 38 on S., NEVADA on W., L.V. 37 on N., and UTAH on E. face. Land, rolling. Soil, sandy and gravelly, 2nd rate. No timber.

July 17, 1902.

Note: The meandering course of the boundary  
line, found by <sup>the</sup> resurvey, seems plainly in-  
dicated in the original field notes. Thus:  
"North on 28th mile, Var. 17° 30' E.  
North on 29th mile, Var. 16° 30' E.  
North on 30th mile, Var. 17° E.  
North on 35th mile, Var. 17° 30' E.  
North on 36th mile, Var. 18° E." etc.  
So far as observed the needle has no such  
fluctuations. The declination was fairly  
constant within the survey.

Nephi P. Anderson,  
U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Nephil P. Anderson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of <sup>rel</sup> Utah-Nevada Bdry. lines in Twp. 11, 12 and 13 N., R. 19 W., Salt Lake Basewrd Meridian, Utah, showing the respective capacities in which they acted:

John S. Christensen, Chainman.

Eli Christensen, Chainman.

William N. Lee, Moundman.

, Moundman.

Lewis O. Johnson, Axman.

, Axman.

John S. Bingham, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephil P. Anderson, United States Deputy Surveyor, in surveying all those parts or portions of the resurvey of Utah-Nevada Bdry. lines in Twp. 11, 12 and 13 N., R. 19 W.

of the Salt Lake

State and meridian, State of Utah, which are represented in the foregoing field notes as having been <sup>re</sup>surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

John S. Christensen, Chainman.

Eli Christensen, Chainman.

William N. Lee, Moundman.

, Moundman.

Lewis O. Johnson, Axman.

, Axman.

John S. Bingham, Flagman.

Subscribed and sworn to before me this 25

day of January, 1905.



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J. D. Call

Notary Public

My commission expires,

Nov. 16th 1905

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson,

United States Deputy Surveyor, do

solemnly swear that, in pursuance of a contract received from Edward B. Anderson,  
United States Surveyor General for the State of Utah, bearing date of the  
12 day of April, 1801, I have well, faithfully, and truly, in my own  
proper person, and in strict conformity with the instructions furnished by the United States Surveyor  
General for the State of Utah, the Manual of Surveying Instructions, and the laws of the  
United States, surveyed all those parts or portions of Utah-Nevada Bdy. line,  
in Twp. 11, 12 and 13 N., R. 19 W.

base and Salt Lake of the State of Utah, which are represented in the

foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly  
swear that all the corners of said survey have been established and perpetuated in strict accordance with  
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor  
General for the State of Utah, and in the specific manner described in the field notes, and that  
the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer  
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Nephi P. Anderson,

United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson, and sworn to before me,

this 9th day of February, 1806.



N. J. Valentine, Clerk District Court  
by Lorenzo Anderson, Deputy

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah April 3, 1806

The foregoing field notes of the survey of the Utah-Nevada Boundary,  
Run in Tps. 11, 12 & 13 N., R. 19 W. of the said dates base and  
Meridian Below

executed by

Nephi P. Anderson  
under his contract No 245, dated April 19th 1801, having been  
critically examined, and the necessary corrections and explanations made, the said field notes, and the  
surveys they describe, are hereby approved.

Thomas Hull  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in  
has been correctly copied from the original notes on file in this office.

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BOOK A-332

## FIELD NOTES

R.J.B.  
OF THE SURVEY OF THESouth Boundaryof  
Jul. 12 N., R. 193 N.UnderN.W.of the Salt Lake Base and Meridian,  
State of Utah,

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

Under his Contract No. 245, dated April 12, 1901

Survey commenced July 19, 1902.

Survey completed July 20, 1902.

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Book	167	53'
Class	53.	42'
Consignee	200	00'

4 42 95

S. J. B. - 1000 feet, 300 long, 3 ins.

## NAMES AND DUTIES OF ASSISTANTS.

John S. Christensen, Chairman

Eli Christensen, Chairman

William W. Lee, Chairman

Lewis O. Johnson, Chairman

John S. Bingham, Chairman

For preliminary affairs see book B. If 44.D.R. 15.W.

BOOK A-332

INDEX DIAGRAM.

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*Meanders Page*.....

**PRELIMINARY OATHS OF ASSISTANTS.**

WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

\_\_\_\_\_, Chainman

\_\_\_\_\_, Chainman

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey o

\_\_\_\_\_, Moundman

\_\_\_\_\_, Moundman

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_



WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey o

\_\_\_\_\_, Axman

\_\_\_\_\_, Axman

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_



I, \_\_\_\_\_, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of \_\_\_\_\_

\_\_\_\_\_, Flagman

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_



Resurvey of the S. Bdy. of Twp. 12 N., R. 19 W.

Claims Survey commenced July 19, 1902, and executed with a W. and L. E. Gunley engineer's transit, described in notes of subdivision of Twp. 14 N., R. 15 W. Block C At the cor. of Twp. 11 and 12 N., R. 18 and 19 W., which is a quartz stone  $5 \times 12 \times 8$  ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at 11 h 39<sup>m</sup>.4 sec. m., l. m. t., I observe Polaris at eastern elong. in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven in wooden peg set in the ground 5.00 chs. north of my station Latitude  $41^{\circ} 43' 27''$  N. long.  $113^{\circ} 58' 37''$  W.

July 19, 1902.

July 20, 1902, at 7 h a.m., I lay off the azimuth of Polaris  $1^{\circ} 37' 8''$  to the west, and mark the true meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.

The magnetic bearing of the true meridian is N.  $17^{\circ} 58' 37''$ , which gives the magnetic declination  $17^{\circ} 58' 6''$ .

Thence of run

West, bet. secs. 1 and 36.

Ascend through cedars.

8.00 Ridge, bears S. and N.

Descend.

16.80 Creek, 3 lbs. wide, 10 ins. deep, flows S., road along east side.

Ascend.

21.50 Spring branch, flowing N. E.

A reservoir bears S.  $14^{\circ}$  E., 12 chs. dist.

40.00 I find the old 1/4 sec. cor., which is a cedar tree, 5 ins. diam., marked and witnessed as described by the surveyor general.

I raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor., pits impracticable.

80.00 I find a cedar post, 3 ft. long, 3 ins.

Proceedings of the Geological Survey of Guatemala. 1931.

stone, sand, sandbeds as described by the  
surveys generally, base on the old  
soil.

I find the post, 36 ins. in the ground,  
1 ft. from the base, 1.2.25 cubic feet.  
I count the nearly obliterated figs and  
the remains of cattle.

Post, granular.

Soil, granular, fine soil.

Flint, coarse, scattered on the whole surface.

Alumino-silicate sand 20 cu. ft.

Post, lot. sec. 2000 ft. 33.

Brought down carbonaceous

from roads, houses & other buildings.

we find the old in sec. 2000, which is a  
post, 4 ins. square, 16 ins. above ground,  
firmly set, marked and witnessed  
as described by the surveyor general.

2000 ft. in ridge, sloping S. Elevation 5390 ft.

I find the old base of ins. 20, 34 and 35.

Soil is a limestone, 8x8x6 ins. above  
ground firmly set, marked and witnessed  
as described by the surveyor general.

Post, granular.

Soil, coarse granular, fine soil.

Flint, coarse.

Alumino-silicate sand 20 cu. ft. Elevation 5400 ft.

Post, lot. sec. 2000 ft. 34.

Granular ridges.

Soil, coarse.

2000 ft. ridges, limestone.

2000 ft. lot of ridge, projecting S.

2000 ft. flint, coarse, 1.2.25 cu. ft. fine soil.

2000 ft. limestone, base 1.2.25 cu. ft. coarse.

2000 ft. base of the old in 2000 ft., which is

coarse granular, short, 20x10x5 ins., ins.

remains of stone, marked and witnessed.

2000 ft. described by the surveyor general.

Resurvey of the South Bdy. of Twp. 12 N., R. 19 W.

40.00	erall. Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
42.00	Enter wide hollow, draining S.E., elevation 5120 ft.
61.00	Fence, unfinished, bears N.E., leave hollow and ascend on northern slope.
80.00	I find the old cor. of secs. 3, 4, 33 and 34, which is a granite stone, 6×9×8 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Land, heavy rolling and ridgy. Soil, gravelly and sandy, 2nd rate. Timber, cedars. Dense undergrowth of sagebrush and cedars 800 chs.
	West, bet. secs. 4 and 33. Through dense undergrowth and cedars.
40.00	The old ¼ sec. cor. bears S. 24° 27' W., 36 lbs. dist. I destroy this cor. Set a sand stone slab, 22×16×1½ ins., 16 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
44.00	Small hollow, drains N., spring 3 chs. down hollow.
67.53	Intersect the Utah-Nevada bdy. line. Set a sand stone, 18×10×5 ins., 12 ins. in the ground, for closing cor. of Twp. 11 and 12 N., R. 19 W., marked U. C. C. on E., N. on W., with 6 grooves on N. and S. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor., pits impracticable. Land, rolling and ridgy. Soil, gravelly and rocky, 3rd rate. Timber, cedars. Dense undergrowth 67.53 chs.
80.10	According to my instructions I continue this line into Nevada, and at Find the old closing cor., which I destroy and scatter the mound of stone placed by it.

Resurvey of the South Bdy. of Twp. 12 N., R. 19 W.

Chains	Dense undergrowth 12.57 chs.  From the closing cov. of the Twp. & run $8^{\circ}10' W.$ on the Utah-Nevada boundary line, and at 42.85 Intersect the boundary post No. 25, which is a cedar post, firmly standing, and herein before described.
--------	--

July 30, 1902.  
Nephi P. Anderson,  
U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Nephi P. Anderson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of South boundaries of Twp. 14 N., R. 15 W., and of Twp. 12 N., R. 19 W., Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

John S. Christensen, Chainman.

Eli Christensen, Chainman.

William N. Lee, Moundman.

, Moundman.

Lewis O. Johnson, Axman.

, Axman.

John S. Bingham, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson,

United States Deputy Surveyor, in surveying all those parts or portions of the South boundaries of Twp. 14 N., R. 15 W., and of Twp. 12 N., R. 19 W.

Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

John S. Christensen, Chainman.

Eli Christensen, Chainman.

William N. Lee, Moundman.

, Moundman.

Lewis O. Johnson, Axman.

, Axman.

John S. Bingham, Flagman.

Subscribed and sworn to before me this 25 day of January, 1905.



J. D. Call  
Notary Public.

My commission expires,  
Nov. 16th 1905.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

*Nephil P. Anderson*, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from *Edward B. Anderson*, United States Surveyor General for *The State of Utah*, bearing date of the 12 day of April, 1901, I have well, faithfully, and truly, in my own person, and in strict conformity with the instructions furnished by the United States Surveyor General for *The State of Utah*, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of *South Boundary of Salt Lake City*, *Br. 15th, and of Salt Lake, Br. 19th*.

..... of the *Salt Lake* base and meridian, in the *State of Utah*, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for *The State of Utah*, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

*Nephil P. Anderson*  
United States Deputy Surveyor.

Subscribed by said *Nephil P. Anderson*, and sworn to before me  
this 1 day of February, 1906.

800000  
8 SEAL  
800000

*N. J. Valentine, Clerk District Court  
by Lorraine W. Anderson, Deputy*

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*March 26th, 1906*

The foregoing field notes of the survey of *South Boundary of Township  
12, Salt Valley 19, West of the Salt Lake Base & the Section  
Line*, executed by *Nephil P. Anderson*, dated *February 12, 1901*, No. *145*, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*H. C. Mull*  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-332

## FIELD NOTES

OF THE SURVEY OF THE

Subdivisionsof  
Twp. 11 N., R. 19 W.of the Salt Lake Base and Meridian,  
State of Utah.

AS SURVEYED BY

Nepahui P. Anderson, United States Deputy Surveyor,

under his Contract No. 245, dated April 12, 1901.

Survey commenced July 21, 1902.

Survey completed July 22, 1902.

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Length 3.56 26'  
Elev. 48 18'

, 100 x 8 x 1 in., on rocky slope,

NAMES AND DUTIES OF ASSISTANTS.

Johan S. Christensen,

Chairman

Eli Christensen,

Chairman

William N. Lee,

Mountman

Lewis O. Johnson,

Axman

John S. Birmingham,

Flagman

For preliminary officiality, see Leslie C. Field, P. W.

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*Meanders Page.....*

PRELIMINARY OATHS OF ASSISTANTS.

We, ..... and ..... do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190. }



We, ..... and ..... do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190. }



We, ..... and ..... do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Axman.

, Axman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190. }



I, ..... , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this ..... }  
day of ..... , 190. }



Subdivision of Twp. 11 N., R. 19 W.

Chains	Survey commenced July 21, 1902, and executed with a W. and L. E. Gurley engineers transit, described in notes of subdivision of Twp. 14 N., R. 15 W. Book C.
	At the cor. of secs. 9, 10, 15 and 16, which is a granite stone, $7 \times 11 \times 8$ ins. above ground, marked and witnessed as described by the surveyor general.
	At 11 $^{\circ}51'46''$ from true t., & observe Polaris at Ecliptic, in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven a wooden peg, set 5 chs. north of my station. Lat. $41^{\circ}41'39''$ N.
	July 21, 1902.
	July 22: At 7 $^{\circ}$ a.m., I lay off the azimuth of Polaris $1^{\circ}37'6''$ to the west, and mark the true meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night. The magnetic bearing of the true meridian is N. $17^{\circ}58'7''$ W., which gives the magnetic declination $17^{\circ}58'8''$ E.
	Prince of ease Wmt, bl. secs. 9 and 16. Over mountainous land, through scattered timber.
8.00	Leave hollow, draining S.E.
17.50	Search on mountainous slopes.
30.00	Trail, bears S.E. and N.W.
40.00	I find the old 1/4 sec. cor., which is a granite stone $7 \times 10 \times 7$ ins. above ground, marked as described by the surveyor general. I witness the cor. by raising a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of cor., pile impracticable.
61.80	Ridges, bears S.W. and N.E.
	Ridges along northern slope.
65.00	I search diligently for the old closing cor., but find no traces of it.
67.86	Intersect the Utah-Nevada bdy. line. Set a sand stone, $20 \times 8 \times 7$ ins., on rocky slope,

Subdivision of Twp. 11 N., R. 19 W.

	<p>Shains in mound of stone, for closing cor. of secs. 9 and 10, marked with 4 grooves on S. 2 grooves on N., N. &amp; W., and U. &amp; E. with 4 grooves on E. face, and raise a mound of stone, 2 ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor., pits impracticable.</p> <p>Land, mountainous.</p> <p>Soil, rocky, 3rd rate.</p> <p>Timber, cedars, scattered.</p> <p>Mountainous land 67.86 chs.</p> <p>Fence I run</p> <p>South, on Utah Nevada bdy. line, and at Intersect the intermediate bdy post, on high peak, on the 24th mile, herein before described</p> <p>Mountainous land 10.50 chs.</p>
10.50	<p>North, bet. secs. 9 and 10.</p> <p>Over mountainous land.</p> <p>I find the old <math>\frac{1}{4}</math> sec. cor., which is a granite stone, <math>6 \times 12 \times 6</math> ins. above ground, marked as described by the surveyor general, I raise a mound of stone, 2 ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor., pits impracticable.</p>
40.00	<p>Gulch, drains N. E.</p> <p>Canyon, drains S. E.</p> <p>I find the cor. of secs. 3, 4, 9 and 10, which is a granite stone, <math>6 \times 10 \times 5</math> ins. above ground, marked as described by the surveyor general. I raise a mound of stone, 2 ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor., pits im- practicable.</p>
55.00	<p>Land, mountainous.</p> <p>Soil, gravelly, 3rd rate.</p> <p>Timber, cedars, scattered.</p> <p>Mountainous land 80.00 chs.</p>
74.00	<p>West, bet. secs. 4 and 9</p> <p>Over mountainous land, through scat- tered cedars.</p>
80.00	<p>Junction of hollows from N. W. and S. E., drains N. E.</p>
25.00	

Subdivision of Twp. 11 N., R. 19 W.

Chains 30.00	Leave canyon and ascend. I search diligently for the old $\frac{1}{4}$ sec. cor., but find no traces of it.
40.00	Set a granite stone, $15 \times 8 \times 7$ ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
65.00	I search diligently for the old closing cor., but find no traces of it.
65.50	Top of precipitous ridge, trending N. and S.
67.90	Intersect the Utah-Nevada bdy. line. Set a sand stone, $25 \times 9 \times 6$ ins., 19 ins. in the ground, for closing cor. of secs. 4 and 9, marked N. on N., 5 grooves on S., 1 groove on N., with U. c. c. and 4 grooves on E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor., pits impracticable.
	Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, Cedars, scattered. Mountainous land 67.90 chs. Hence I run
	North on Utah-Nevada bdy. line. Over mountainous land.
37.63	Intersect bdy. post No. 25, hereinbefore described. Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, scattered cedars. Mountainous land 37.63 chs.
"	North, on random line, bet secs. 3 and 4. Over mountainous land, through scattered cedars.
40.00	I fall 30 lbs. west of the old $\frac{1}{4}$ sec. cor., which is a granite stone, $6 \times 12 \times 9$ ins. above ground, marked as described by the surveyor general. I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,

Subdivision of Twp. 11 N., R. 19 W.

Chain  
80.48  
W. of cor., pits impracticable.  
Intersect the N. bdy. of the Twp. 61 lbs. E. of  
the cor. of secs. 3, 4, 33 and 34, herein  
before described.  
I therefore conclude that the true course  
bet. secs. 3 and 4 is  $3.0^{\circ} 26' E.$ , as stated by  
the surveyor general, and the given  
distance 80.48 chs. correct.  
Land, mountainous.  
Soil, gravelly, 2nd rate.  
Timber, few cedaris.  
Mountainous land 80.48 chs.  
July 22, 1902.

Boundaries of Fractional Survey.  
Latitudes, departures and closing errors.

Line designated	True bear.	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
South bdy. Sec. 9	West	chs. 67.86	chs. . . . .	chs. . . . .	chs. . . . .	chs. 67.86
West bdy.	North	117.50	117.50	... . . . .	... . . . .	... . . . .
" "	$N. 0^{\circ} 10' E.$	42.85	42.85	... . . . .	0.12	... . . . .
North bdy.	East	67.53	... . . . .	... . . . .	67.53	... . . . .
East bdy.	$3.0^{\circ} 26' E.$	80.48	... . . . .	80.48	0.61	... . . . .
" "	South	80.00	... . . . .	80.00	... . . . .	... . . . .
Convergency			... . . . .	... . . . .	0.04	... . . . .
Error in Lat. & Def't			160.35	160.48	68.30	67.86
				160.35	67.86	
				0.13	0.44	

General Description.

The land within this <sup>survey</sup> is gravelly and rocky, and good for grazing, with sufficient water for stock. The timber is limited and consists of cedars and a few *mhogamis*. There are no settlers and no mineral land within the survey.

Nephi P. Anderson,  
U. S. Deputy Surveyor.

**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**

**LIST OF NAMES.**

A list of the names of the individuals employed by \_\_\_\_\_  
\_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and  
marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_  
owing the respective capacities in which they acted:

....., *Chairman.*

....., *Chairman.*

....., *Moundman.*

*Fa ffinal affidavito see book Q Jy 13 M R 19 W*, *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted \_\_\_\_\_  
\_\_\_\_\_, United States Deputy Surveyor, in surveying all  
those parts or portions of the \_\_\_\_\_

....., *of the* \_\_\_\_\_

....., *meridian,* \_\_\_\_\_, *of* \_\_\_\_\_, *which are represented*  
*the foregoing field notes as having been surveyed by him and under his direction; and that said survey*  
*has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the*  
*corner monuments established, according to the instructions furnished by the United States Surveyor*  
*general for* \_\_\_\_\_

....., *Chairman.*

....., *Chairman.*

*Fa ffinal affidavito see book Q Jy 13 M R 19 W*, *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

....., *subscribed and sworn to before me this* \_\_\_\_\_  
....., *day of* \_\_\_\_\_, 190 \_\_\_\_\_ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date of the day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

*For formal affidavits see book No. 135, P. 19, W.*

of the \_\_\_\_\_

meridian, in the \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Salt Lake City, April 3, 1901, No. 14*  
*The subdivisions of Township  
14, Salt Range, West of the Salt Lake Base and Meridian  
Line.*

executed by *Nephis P. Anderson*,  
under his contract No. *245*, dated *April 3, 1901*, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Thomas Hull*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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## FIELD NOTES

OF THE SURVEY OF THE

*Retracement of the Subdivision  
of  
Twp. 11 N., R. 19 W.**of the Fall Lake Baseline Meridian,  
State of Utah,*

AS SURVEYED BY

*Nephi P. Headenow, United States Deputy Surveyor,  
Under his Contract No. 2445, dated April 13, 1901.**Survey commenced July 22, 1902.  
Survey completed July 22, 1902.*

—111—  
Ret. L. 100 ft  
Res. heights 67.42'  
Elev. 37.72'

NAMES AND DUTIES OF ASSISTANTS.

Johan S. Christensen,

Chairman.

Eli Christensen,

Chairman.

William N. Lee,

Moundman.

Lewis O. Johnson,

Fixman.

John S. Bingham,

Flagman.

To preliminary officals see book Dr. P. 14 M R 15 Or

BOOK A-332

INDEX DIAGRAM.

Township 11 N., Range 19 W.

6	5	4	3	2	1
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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

# PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and .....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman

....., Chainman

Subscribed and sworn to before me this .....  
day of ..... , 190 }  
{



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey o

....., Moundman

....., Moundman

Subscribed and sworn to before me this .....  
day of ..... , 190 }  
{



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey o

....., Axman

....., Axman

Subscribed and sworn to before me this .....  
day of ..... , 190 }  
{



I, ..... , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

....., Flagman

Subscribed and sworn to before me this .....  
day of ..... , 190 }  
{



Retracement of Subdivisions in Twp. 11 N., R. 19 E.

Survey commenced July 22, 1902 and executed with the instrument described in Book C.  
From the cor. of secs. 9, 10, 15 and 16.

which is a stone, firmly set, herein  
before described, S. 21° W.

South, bet. secs. 15 and 16.

Over mountainous land.

40.25 Fall 19 lbs. E. of the old 44 sec. cor., which  
is a granite stone, 6x10x6 ins. above ground,  
marked and witnessed as described  
by the surveyor general.

80.31 Intersect the east and west line 37 lbs. E.  
of the cor. of secs. 15, 16, 21 and 22, which  
is a trachyte stone, 8x15x6 ins. above  
ground, firmly set, marked and witnessed  
as described by the surveyor general.

The bearing of this line is therefore 3.0° 16' W.

Land, mountainous.

Soil, gravelly and rocky, 3rd rate.

No timber.

Mountainous land 80.31 chs.

West, bet. secs. 16 and 21.

Over mountainous land.

40.22 Fall 2 lbs. N. of the old 44 sec. cor., which  
is a quartzite stone, 7x10x10 ins. above  
ground, firmly set, marked and wit-  
nessed as described by the surveyor  
general.

64.07 Search diligently for the old closing  
cor., but find no traces of it.

67.42 Intersect the Utah-Nevada bdy. line.  
Set a quartz stone, 17x9x8 ins., 12 ins. in  
the ground, for closing cor. of secs. 16  
and 21, marked U. c. c. with 4 grooves  
on E., 3 grooves on N. and S. faces  
, and raise a mound of stone,  
2 ft. base, 1½ ft. high, E. of cor., fits in-  
practicable.

Land, mountainous.

Soil, gravelly and rocky, 3rd rate.

Retracement of Subdivisions in Twp. 11 N., R. 19 W.

Chains	No timber. Fence I run. North on Utah-Nevada bdy. line Ascend on mountainous slope.
0.20	Henders road, bears E and W.
37.72	Intersect E and W. line at bdy. post No. 23, which is a cedar post in mound of stone, herein before described. Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, scattered mahogany. Mountainous land 37.72 chs.

July 22, 1902.  
Nephi P. Anderson,  
U. S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Nephi P. Anderson,

United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Retracement of Subdivisions, Twp. 14 N., Rrs. 15 and 16 W., and Twp. 11 N., R. 19 W., Salt Lake City and Midian, Utah, showing the respective capacities in which they acted:

John S. Christensen, Chainman.

Eli Christensen, Chainman.

William W. Lee, Moundman.

Moundman.

Lewis O. Johnson, Axman.

Axman.

John S. Bingham, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson,

United States Deputy Surveyor, in surveying all those parts or portions of the retracement of subdivisions in Twp. 14 N., Rrs. 15 and 16 W., and Twp. 11 N., R. 19 W., Salt Lake City and Midian, Utah,

of the Salt Lake

Base and meridian, State of Utah, which are represented retraced in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

John S. Christensen, Chainman.

Eli Christensen, Chainman.

William W. Lee, Moundman.

Moundman.

Lewis O. Johnson, Axman.

Axman.

John S. Bingham, Flagman.

Subscribed and sworn to before me this 25

day of January, 1905.



J. D. Call  
Notary Public  
My commission expires  
Nov. 18th 1905.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephil P. Anderson, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 12 day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Retracement of subdivisions in Twp. 14 N., R. 15 and 16 W., and Twp. 11 N., R. 18 W.

base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the State of Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Nephil P. Anderson,

United States Deputy Surveyor

Subscribed by said Nephil P. Anderson, and sworn to before me  
this 9th day of February, 1906.



N. J. Valentine, Clerk District Court  
by Lorenzo W. Anderson, Deputy

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 3, 1906  
The foregoing field notes of the survey of the subdivision lines of  
Township 11 North Range 19 West of the Salt Lake Meridian  
and Meridian, etc.

executed by Nephil P. Anderson  
under his contract No 2457, dated April 12, 1901, having been  
critically examined, and the necessary corrections and explanations made, the said field notes, and the  
surveys they describe, are hereby approved.

Thomas D. Bell  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in  
has been correctly copied from the original notes on file in this office.